

MICHIGAN SUGAR COMPANY

VARIETY RESULTS

2006

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Michigan Sugar Company
Official Variety Trials - 2006

General Trial Information

	<u>Breckenridge</u>	<u>Kawkawlin</u>	<u>Akron</u>	<u>Sandusky</u>
Grower	Bebow	Schwab	Russell	Stoutenburg
Trial Quality	Very Good	Fair	Good	Very Good
Planted	26-Apr	21-Apr	19-Apr	26-Apr
Harvested	21-Oct	26-Sep	1-Nov	16-Oct
Soil Type	Sandy Loam	Sandy Loam	Sa C Loam	Loam
Soil pH	7.9	8.1	7.8	6.8
Soil %OM	3.7	1.6	2.5	8.9
CEC meq/100 g	16.2	11	16.4	17.3
Phosphorus	Optimum	Optimum	Optimum	Optimum
Potassium	Optimum	Optimum	Optimum	Optimum
Magnesium	Optimum	Optimum	Optimum	Optimum
Manganese	Adequate	Adequate	Adequate	Adequate
Micronutrients	Adequate	Adequate	Adequate	Adequate
Nitrogen Added	100 units	100 units	100 units	100 units

*Seasonal Rainfall

	<u>Breckenridge</u>	<u>Kawkawlin</u>	<u>Akron</u>	<u>Sandusky</u>	<u>Pigeon</u>
March	1.71	2.42	2.22	1.95	2.05
April	1.83	2.47	3.53	2.53	3.57
May	6.79	5.16	2.85	2.37	4.31
June	2.14	2.20	2.95	2.75	2.67
July	7.40	3.13	4.60	4.83	2.27
August	5.30	1.92	2.25	3.25	1.84
September	3.15	2.70	3.80	3.45	3.30
October	3.71	0.00	4.68	3.36	0.96
Total	32.03	20.00	26.88	24.49	20.97

*Rainfall included from planting to harvest at each location

Michigan Sugar 2006 Variety Entries

Variety	Ploidy	Commercially Prepared	RZOC	Root Aphid	RZOM	APH	Bio Tech	Nem	Years In Test*
Beta 5310	Trip	Yes		X		X			5
Beta 5451	Trip	Yes		X		X			C
Beta 5833R(1383R)	Dip	Yes	X	X	X				4
Beta 5411R(1411R)	Trip	Yes		X	X	X			4
Beta 5930R(1531R)	Trip	No		X	X	X			2
Beta BK1641R	Dip	No		X	X	X			1
Beta BK1642R	Trip	No		X	X				1
Beta 5534N	Dip	Yes		X	X			X	(2)
Beta BK1643N	Dip	No		X				X	1
Beta B5902RR	Dip	No	X	X			X		2
Beta B6904RR	Dip	No	X	X	X		X		1
Beta B6905RR	Dip	No		X	X		X		1
Crystal 963	Trip	Yes		X		X			C
Crystal 271	Trip	Yes		X		X			5
Crystal 355	Trip	Yes	X	X		X			4
Crystal R442(R451)	Trip	Yes		X	X	X			3
Crystal Z588	Dip	No	X	X	X				2
Crystal R509(Z589)	Dip	No	X	X	X				2
Crystal R626	Trip	No		X	X				1
Crystal Z627	Dip	No	X	X	X				1
Crystal C9641RR	Dip	No			X		X		1
Crystal C9642RR	Dip	No			X		X		1
HM 2761RZ	Dip	Yes		X	X	X			6
HM 2763RZ	Dip	Yes		X	X	X			5
HM 2767	Dip	Yes		X		X			5
HM 2771RZ	Dip	Yes		X	X	X			4
HM 7172RZ	Dip	Yes	X	X	X	X			4
HM 73RZ(2773Rz)	Dip	Yes		X	X	X			3
HM 74RZ(2774Rz)	Dip	No		X	X	X			3
HM 2779RZ	Dip	No	X	X	X	X			2
HM 2780RZ	Dip	No		X	X	X			2
HM 2781RZ	Dip	No		X	X	X			1
HM 2782RZ	Dip	No		X	X	X			1
HM 2784RZ	Dip	No	X	X	X	X			1
HM 7235RZ	Dip	No	X	X	X	X			1
HM 9013RR	Dip	No		X	X	X	X		1
HM 9027RR	Dip	No	X	X	X	X	X		1
HM 9028RR	Dip	No	X	X	X	X	X		1
HM 9029RR	Dip	No	X	X	X	X	X		1
SX Prompt	Dip	Yes		X		X			C
SX 1233	Dip	No		X	X	X			1

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 3 Years

VARIETIES APPROVED FOR THE 2007 GROWING SEASON

Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating	Nurseries			
								Root Aphid	Rhizoc- tonia	Aphano- myces	Rhizo- mania
Crystal 271	7282	259.5	18.00	93.93	28.05	64.0	3.17	Fair	Poor	Excellent	Excellent
Beta 5451	7189	258.2	17.97	93.79	27.94	65.8	3.17	Excellent	Fair	Excellent	Excellent
Crystal 963	7149	256.5	17.91	93.66	27.86	65.5	3.10	Excellent	Fair	Excellent	Excellent
Beta 5310	7067	254.3	17.69	93.90	27.81	61.5	2.55	Good	Poor	Excellent	Excellent
Beta 5411R	7038	254.0	17.96	93.07	27.69	51.7	3.29	Fair	Poor	Excellent	Fair
Crystal 355	6897	253.1	17.70	93.62	27.29	61.3	1.60	Poor	Good	Excellent	Excellent
HM 2767	6804	260.3	17.97	94.18	26.09	66.4	2.87	Poor	Poor	Excellent	Excellent
HM 2763Rz	6772	255.4	17.67	94.11	26.47	66.7	3.43	Excellent	Poor	Good	Good
HM 2771Rz	6703	256.9	17.85	93.91	26.11	62.5	2.96	Fair	Poor	Excellent	Good
HM 7172Rz	6691	248.1	17.56	93.13	27.09	57.3	3.03	Fair	Good	Fair	Good
HM 2761Rz	6662	252.6	17.68	93.56	26.39	61.6	3.24	Fair	Poor	Excellent	Good
SX Prompt	6429	252.2	17.74	93.36	25.49	69.6	3.30	Excellent	Fair	Excellent	Excellent
Limited											
Approval	Crystal R442	7121	254.4	17.88	93.35	27.99	2.94	Good	Poor	Excellent	Fair
Plant Thru											
2008	Beta 5833R	7145	251.9	17.47	94.08	28.45	3.59	Excellent	Fair	Fair	Good

* Lower number indicates more resistance.
 Rows: 2 Replications: 8 Row Spacing: 30"
 Sprayed with Amistar/Quadris for Rhizoctonia control.

Michigan Sugar Company
Official Variety Trial 2006
 Average of 2 Years

VARIETIES APPROVED FOR THE 2007 GROWING SEASON

Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating	Root Aphid	Nurseries		
									Rhizoc- tonia	Aphano- myces	Rhizo- mania
Crystal 271	7492	254.7	17.28	95.00	29.23	64.51	3.19	Fair	Poor	Excellent	Excellent
Beta 5451	7388	254.6	17.28	94.98	28.88	63.84	3.06	Excellent	Fair	Excellent	Excellent
Crystal 963	7368	250.7	17.10	94.76	29.13	65.67	3.04	Excellent	Fair	Excellent	Excellent
Beta 5310	7278	248.8	16.88	95.09	29.08	62.13	2.18	Good	Poor	Excellent	Excellent
Beta 5411R	7225	250.2	17.26	94.17	28.62	50.28	3.08	Fair	Poor	Excellent	Fair
Fully Approved	7083	247.9	16.92	94.75	28.42	59.54	1.68	Poor	Good	Excellent	Excellent
HM 2767	6985	257.9	17.34	95.42	26.89	64.21	2.73	Poor	Poor	Excellent	Excellent
HM 2763Rz	6915	251.4	16.99	95.21	27.28	65.38	3.48	Excellent	Poor	Good	Good
HM 7172Rz	6899	243.4	16.84	94.17	28.29	56.60	3.06	Fair	Good	Fair	Good
HM 2771Rz	6860	252.5	17.09	95.12	27.01	60.81	3.00	Fair	Poor	Excellent	Good
HM 2761Rz	6777	247.5	16.96	94.59	27.22	60.90	3.25	Fair	Poor	Excellent	Good
SX Prompt	6644	249.6	17.14	94.46	26.44	69.42	3.45	Excellent	Fair	Excellent	Excellent
Crystal R442	7367	252.5	17.29	94.54	28.97	56.60	3.01	Good	Poor	Excellent	Fair
Beta 5930R(1531R)	7339	254.2	17.45	94.38	28.61	46.48	2.94			Good	Fair
Limited Approval	7134	246.0	16.82	94.70	28.80	67.50	3.52		Good		Good
HM 2780Rz	7056	247.9	16.79	95.14	28.12	66.70	3.48		Poor	Fair	Good
Specialty Varieties	7276	243.9	16.78	94.43	29.70	66.78	3.34		Good	Excellent	Good
HM 2779Rz											
Plant Thru 2008	7358	246.9	16.68	95.30	29.71	66.79	3.68	Excellent	Fair		Good

* Lower number indicates more resistance.
 Rows: 2 Replications: 8 Row Spacing: 30"
 Sprayed with Amistar/Quadris for Rhizoctonia control.

Michigan Sugar Company

Sugarbeet Variety Approval System

Revised 9/15/05

Objective:

The purpose of the Official Variety Trials (OVT) testing program is to identify and evaluate improved sugarbeet varieties for Michigan Sugar Company growers. The variety approval process is based primarily on a mathematical system which measures the yield, quality, storability and Cercospora leafspot levels of new varieties. Minimum levels for RWSA, RWST, RWST-Storage and Cercospora leafspot tolerance must be met before a variety will be fully approved. Additional testing is conducted to measure other varietal traits such as emergence and tolerance to pests and diseases. No variety may be sold or given away unless approved by Michigan Sugar Company.

The yield, quality, storability and Cercospora tolerance of new varieties are measured against approved "check varieties" which have demonstrated consistency for these traits over time. The current check varieties for yield, quality, storability and Cercospora are: **SX Prompt, Crystal 963 and HM 2761Rz.**

The Performance Standards used to approve a variety will include:

RWSA: 98.93% or more of the check varieties.

RWST: 98.38% or more of the check varieties.

RWST-Storage: 91% or more of the check varieties (including HM E-17).

Cercospora Leafspot: 110.9% or less of the check varieties.

These performance standards are based on an average of the most recent 3 years of data.

Limited Approval (5%):

After 2 consecutive years of successful testing (performance standards passed) a variety will be advanced to Limited Approval (5%). This is intended to be a test marketing period and the variety can be planted on up to 5% of the Co-op's acreage. Commercially processed seed must be used. If the OVT performance standards are maintained during this test marketing period the variety will become fully approved.

Limited Approval (10%):

If the performance standards are maintained after 3 consecutive years of successful testing, but the variety was not test marketed or if commercial seed is not available after 2 years of successful testing, the variety will be advanced to Limited Approval (10%). Varieties in this category can be planted on up to 10% of the Co-op's acreage. If the performance standards are maintained during this test marketing period and commercial plantings were successful the variety will become fully approved.

Full Approval:

After 3 consecutive years of testing a variety will be advanced from Limited Approval to Full Approval assuming the 3 year OVT data averages pass all requirements and the variety has been test marketed and commercial seed is available. Fully approved varieties do not have limits on the amount of seed that can be sold or planted. A fully approved variety must maintain the required leafspot level 110.9% or it will be disapproved. If a variety's 3 year leafspot level exceeds the limit of 110.9% it will be disapproved and put on a 2 year plant out. A disapproved variety can be reinstated if the latest 3 year average meets the leafspot level.

If a fully approved variety is not submitted for testing, it will be disapproved and put on a 2 year plant out.

Specialty Approval:

Varieties may be approved as "Specialty Varieties" if they do not meet the performance standards but have other desirable characteristics such as insect or disease tolerance. To be considered for a specialty approval the variety must be designated by the seed company as having the specialty trait and must be successfully tested by the Company in an approved nursery. Commercial seed must also be available. If approved by the Seed Committee, the variety can be sold for 2 years after approval and the seed committee will determine the quantity of seed that can be sold each year.

Seed Committee:

The Michigan Sugar Company Seed Committee is comprised of the following members: 4 employees from the Agricultural Department, 4 members from the Board of Directors and 5 Grower members representing different growing districts. The chairman will be elected from the 5 Grower members. Each member on the Seed Committee has 1 vote.

Variety Approval and Policy Changes are Subject to Board of Director Approval

Michigan Sugar Company 2006 Variety Approval

Fully Approved Varieties for 2007

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>		<u>STORAGE-RWST</u>	
	<u>Need 98.38%</u>		<u>Need 98.93%</u>		<u>Need 110.9 or Less</u>		<u>Need 91%</u>	
HM 2767	Yes	102.6	Yes	100.9	Yes	89.1	Yes	101.6
HM 2763Rz	Yes	100.6	Yes	100.6	Yes	106.7	Yes	100.6
Crystal 271	Yes	102.3	Yes	108.0	Yes	101.7	Yes	96.4
SX Prompt	Yes	99.4	No	95.2	Yes	102.8	Yes	101.8
Crystal 963	Yes	101.1	Yes	105.9	Yes	96.5	Yes	97.5
HM 2761Rz	Yes	99.5	No	98.8	Yes	100.7	Yes	100.7
Beta 5451	Yes	101.8	Yes	106.6	Yes	99.0	Yes	98.5
Beta 5310	Yes	100.2	Yes	104.8	Yes	79.6	Yes	96.0
Beta 5833R(1383)	Yes	99.3	Yes	105.9	**No	112.0	Yes	99.0
HM 2771Rz	Yes	101.3	Yes	99.5	Yes	92.0	Yes	100.8
Crystal 355*	Yes	99.7	Yes	102.2	Yes	49.6	Yes	102.4
HM 7172 Rz	No	97.8	Yes	99.4	Yes	94.3	Yes	98.8
Beta 5411R(1411)*	Yes	100.1	Yes	104.6	Yes	102.6	Yes	97.1

** Can be sold for only two years unless it again meets the approval for Cercospora resistance.

*New Approvals for 2007

Limited Approval for 2007 (10%)

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>		<u>STORAGE-RWST</u>	
	<u>Need 98.38%</u>		<u>Need 98.93%</u>		<u>Need 110.9 or Less</u>		<u>Need 91%</u>	
Crystal R442(R451)	Yes	100.3	Yes	105.7	Yes	91.8	Yes	95.8

3rd Year Varieties Not Meeting Limited Approval

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>		<u>STORAGE-RWST</u>	
	<u>Need 98.38%</u>		<u>Need 98.93%</u>		<u>Need 110.9 or Less</u>		<u>Need 91%</u>	
HM 73Rz(2773Rz)	Yes	100.7	Yes	103.3	No	113.0	Yes	103.3
HM 74Rz(2774Rz)	No	97.5	Yes	104.6	Yes	103.9	Yes	97.6

Limited Approval for 2007 (5% Acreage)

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>		<u>STORAGE-RWST</u>	
	<u>Need 98.38%</u>		<u>Need 98.93%</u>		<u>Need 110.9 or Less</u>		<u>Need 91%</u>	
Crystal R509(Z589)	Yes	98.8	Yes	103.2	Yes	108.3	Yes	103.7
HM 2780Rz	Yes	99.5	Yes	102.0	Yes	107.0	Yes	92.7
Beta 5930R(1531R)	Yes	102.0	Yes	106.1	Yes	90.8	Yes	100.6

Michigan Sugar Company 2006 Variety Approval

2nd Year Varieties Not Meeting Limited Approval

<u>Variety</u>	<u>RWST</u> <u>Need 98.38%</u>		<u>RWSA</u> <u>Need 98.93%</u>		<u>LEAFSPOT</u> <u>Need 110.9 or Less</u>		<u>STORAGE-RWST</u> <u>Need 91%</u>	
Crystal Z588	Yes	100.2	Yes	101.8	No	111.1	Yes	106.6
Beta B5902RR	Yes	101.5	Yes	110.6	No	163.0	Yes	102.1

Special Approval for 2007

<u>Variety</u>	<u>RWST</u> <u>Need 98.38%</u>		<u>RWSA</u> <u>Need 98.93%</u>		<u>LEAFSPOT</u> <u>Need 110.9 or Less</u>		<u>STORAGE-RWST</u> <u>Need 91%</u>	
HM 2779Rz	No	97.9	Yes	105.1	Yes	103.0	Yes	99.7

First Year Varieties

<u>Variety</u>	<u>RWST</u> <u>Need 98.38%</u>		<u>RWSA</u> <u>Need 98.93%</u>		<u>LEAFSPOT</u> <u>Need 110.9 or Less</u>	
SX 1233	Yes	100.5	Yes	99.4	Yes	110.0
HM 2781Rz	Yes	99.4	Yes	103.7	Yes	102.1
Beta 1642R	Yes	99.8	No	98.8	Yes	85.7
HM 2784Rz	Yes	98.5	No	94.6	Yes	103.9
Beta BK1641R	Yes	100.9	Yes	101.4	No	111.8
Crystal R626	Yes	102.4	Yes	102.4	No	113.1
HM 2782Rz	No	96.8	No	97.4	No	117.3
Crystal Z627	Yes	101.4	Yes	105.3	No	130.9
HM 7235Rz	Yes	98.8	No	98.0	No	152.6
HM 9027RR	No	97.4	Yes	106.0	Yes	108.3
HM 9028RR	Yes	98.6	Yes	109.4	No	111.6
HM 9029RR	No	97.6	Yes	107.4	No	114.1
HM 9013RR	No	94.7	Yes	101.6	No	118.1
Beta B6905RR	No	92.5	Yes	106.6	No	134.3
Crystal C9641RR	No	94.3	Yes	112.3	No	142.7
Beta B6904RR	No	91.5	Yes	108.3	No	144.8
Crystal C9642RR	Yes	105.7	Yes	108.7	No	161.5
Beta B5902RR	Yes	102.6	Yes	108.4	No	166.2
Beta BK1643N	Yes	103.0	Yes	116.4	No	158.1
Beta 5534N	No	94.1	Yes	102.7	No	163.8

MICHIGAN SUGAR COMPANY

Approval of Seed Varieties for the 2007 Crop

The Seed Committee of Michigan Sugar Company approved quantities of seed for commercial planting of the following varieties for the 2007 crop:

Fully Approved Varieties

(Unlimited Quantities)

	<u>Until 2008</u>	<u>Until 2007</u>
HM 2761 Rz	Crystal 271	Beta 4381R**
HM 2763 Rz	Crystal 963	Beta 5833R**
HM 2767	Crystal 355	Beta 5736*
SX Prompt	HM 2771 Rz	HM E-17*
Beta 5451	HM 7172 Rz	
Beta 5310	Beta 5411R	

*Last year to plant is 2007

Specialty Approved Varieties

(Limited Quantities)

	<u>Units</u>	<u>Specialty</u>
HM 2779Rz	2,500	Rhizoctonia

**Last year to plant is 2008

Limited Approved Varieties

(Quantities limited to 10% of acres)

Crystal R442

Limited Approved Varieties

(Quantities limited to 5% of acres)

Crystal R509(Z589)

HM 2780Rz

Beta 5930R(1531R)

Committee Members Approval:

The meeting was held in Caro, Michigan on November 20, 2006.

Paul Pfenninger

Lee Hubbell

Clay Crumbaugh, Chairman - Bay City

Marshall Lewis - Board of Directors

Lee Butts - Caro

Scott Shaw - Crosswell

Brian Fox - Board of Directors

Jim Stewart

Corey Guza

Richard Sylvester - Board of Directors

Tom Gettel - Board of Directors

Doug Vader - Sebawaing

Steve Hoard - Carrollton



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Michigan Sugar Company RWSA Summary 2006

Variety	2006		2005		2004		2 Yr	3 Yr
	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Avg</u>	<u>Avg</u>
<i>3 Var Check*</i>	7601.3	100.0	6258	100.0	6380.7	100.0	100.0	100.0
<i>SX Prompt</i>	7333	96.5	5955	95.2	6001	94.0	95.8	95.2
<i>Crystal 963</i>	8093	106.5	6643	106.2	6710	105.2	106.3	105.9
<i>HM 2761Rz</i>	7378	97.1	6176	98.7	6431	100.8	97.9	98.8
Beta 5451	8028	105.6	6748	107.8	6790	106.4	106.7	106.6
HM 2763Rz	7406	97.4	6424	102.6	6487	101.7	100.0	100.6
Beta 5310	7916	104.1	6639	106.1	6647	104.2	105.1	104.8
Crystal 271	8139	107.1	6845	109.4	6862	107.5	108.2	108.0
HM 2767	7672	100.9	6299	100.7	6441	100.9	100.8	100.9
Beta 5833R(1383)	8020	105.5	6696	107.0	6720	105.3	106.3	105.9
Crystal 355	7758	102.1	6408	102.4	6525	102.3	102.2	102.2
HM 2771Rz	7437	97.8	6283	100.4	6390	100.1	99.1	99.5
HM 7172Rz	7343	96.6	6456	103.2	6276	98.4	99.9	99.4
Beta 5411R(1411R)	7658	100.7	6793	108.5	6662	104.4	104.6	104.6
Crystal R442(R451)	7900	103.9	6834	109.2	6631	103.9	106.6	105.7
HM 73Rz(2773Rz)	7596	99.9	6605	105.5	6662	104.4	102.7	103.3
HM 74Rz(2774Rz)	7846	103.2	6524	104.3	6773	106.1	103.8	104.6

Others Tested - 2005 & 2006

	2006		2005		2 Yr
	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Avg</u>
Crystal Z588	7674	101.0	6428	102.7	101.8
Crystal R509(Z589)	7652	100.7	6615	105.7	103.2
HM 2780Rz	7587	99.8	6524	104.3	102.0
Beta 5930R(1531R)	7917	104.2	6760	108.0	106.1
HM 2779Rz	7872	103.6	6680	106.7	105.1
*Beta B5902RR	7806	108.4	6441	112.9	110.6

First Year Varieties- 2006

	2006			2006	
	<u>Lbs</u>	<u>%ck</u>		<u>Lbs</u>	<u>%ck</u>
Crystal R626	7781	102.4	*Beta 5534N	7994	102.7
Beta BK1641R	7706	101.4	*Beta B6904RR	7799	108.3
HM 2782Rz	7405	97.4	*Beta B6905RR	7676	106.6
SX 1233	7552	99.4	*Crystal C9641RR	8087	112.3
Beta 1642R	7513	98.8	*Crystal C9642RR	7830	108.7
HM 7235Rz	7451	98.0	*HM 9013RR	7314	101.6
HM 2784Rz	7188	94.6	*HM 9027RR	7632	106.0
HM 2781Rz	7883	103.7	*HM 9028RR	7878	109.4
Crystal Z627	8007	105.3	*HM 9029RR	7732	107.4
*Beta BK1643N	9056	116.4			

* These varieties were tested in a separate trial from the Official Variety Trial.

Michigan Sugar Company RWST Summary 2006

Variety	2006		2005		2004		2 Yr	3 Yr
	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Avg</u>	<u>Avg</u>
<i>3 Var Check*</i>	256.2	100.0	242.4	100.0	262.8	100.0	100.0	100.0
<i>SX Prompt</i>	257.2	100.4	242.0	99.9	257.4	98.0	100.1	99.4
<i>Crystal 963</i>	258.4	100.9	242.9	100.2	268.2	102.1	100.5	101.1
<i>HM 2761Rz</i>	252.9	98.7	242.2	99.9	262.7	100.0	99.3	99.5
<i>Beta 5451</i>	262.2	102.4	246.9	101.9	265.4	101.0	102.1	101.8
<i>HM 2763Rz</i>	257.7	100.6	245.0	101.1	263.3	100.2	100.9	100.6
<i>Beta 5310</i>	257.1	100.4	240.5	99.2	265.4	101.0	99.8	100.2
<i>Crystal 271</i>	259.2	101.2	250.2	103.2	269.1	102.4	102.2	102.3
<i>HM 2767</i>	265.9	103.8	249.9	103.1	265.0	100.8	103.5	102.6
<i>Beta 5833R(1383)</i>	251.8	98.3	242.0	99.9	262.0	99.7	99.1	99.3
<i>Crystal A355</i>	252.9	98.7	243.0	100.3	263.4	100.2	99.5	99.7
<i>HM 2771Rz</i>	257.0	100.3	248.0	102.3	265.8	101.2	101.3	101.3
<i>HM 7172Rz</i>	245.6	95.9	241.2	99.5	257.6	98.0	97.7	97.8
<i>Beta 5411R(1411R)</i>	253.1	98.8	247.3	102.0	261.7	99.6	100.4	100.1
<i>Crystal R442(R451)</i>	256.5	100.1	248.5	102.5	258.2	98.2	101.3	100.3
<i>HM 73Rz(2773Rz)</i>	256.0	99.9	244.9	101.0	265.8	101.1	100.5	100.7
<i>HM 74Rz(2774Rz)</i>	245.2	95.7	238.1	98.2	259.3	98.7	97.0	97.5

Others Tested - 2005 & 2006

	2006		2005		2 Yr
	<u>Lbs</u>	<u>%ck</u>	<u>Lbs</u>	<u>%ck</u>	<u>Avg</u>
Crystal Z588	254.3	99.3	245.3	101.2	100.2
Crystal R509(Z589)	248.6	97.0	243.5	100.5	98.8
HM 2780Rz	253.3	98.9	242.5	100.1	99.5
Beta 5930R(1531R)	257.3	100.4	251.2	103.7	102.0
HM 2779Rz	248.2	96.9	239.7	98.9	97.9
*Beta B5902RR	253.7	102.6	241.3	100.5	101.5

First Year Varieties- 2006

	2006			2006	
	<u>Lbs</u>	<u>%ck</u>		<u>Lbs</u>	<u>%ck</u>
Crystal R626	262.4	102.4	*Beta 5534N	246.9	94.1
Beta BK1641R	258.6	100.9	*Beta B6904RR	226.2	91.5
HM 2782Rz	247.9	96.8	*Beta B6905RR	228.8	92.5
SX 1233	257.4	100.5	*Crystal C9641RR	233.1	94.3
Beta 1642R	255.7	99.8	*Crystal C9642RR	261.3	105.7
HM 7235Rz	253.1	98.8	*HM 9013RR	234.2	94.7
HM 2784Rz	252.4	98.5	*HM 9027RR	240.9	97.4
HM 2781Rz	254.6	99.4	*HM 9028RR	243.9	98.6
Crystal Z627	259.7	101.4	*HM 9029RR	241.3	97.6
*Beta BK1643N	270.2	103.0			

* These varieties were tested in a separate trial from the Official Variety Trial.

Michigan Sugar Company Cercospora Leaf Spot Summary 2006

Variety	2006		2005		2004		2 Yr	3 Yr
	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>Avg</u>	<u>Avg</u>
<i>3 Var Check*</i>	3.32	100.0	3.17	100.0	3.15	100.0	100.0	100.0
<i>SX Prompt</i>	3.27	98.6	3.63	114.4	3.01	95.6	106.5	102.8
<i>Crystal 963</i>	3.17	95.4	2.91	91.8	3.22	102.2	93.6	96.5
<i>HM 2761Rz</i>	3.52	106.0	2.97	93.8	3.22	102.2	99.9	100.7
Beta 5451	2.95	88.9	3.16	99.7	3.41	108.3	94.3	99.0
HM 2763Rz	3.66	110.3	3.29	104.0	3.34	106.0	107.1	106.7
Beta 5310	2.38	71.7	1.98	62.3	3.30	104.8	67.0	79.6
Crystal 271	3.34	100.7	3.33	105.0	3.13	99.4	102.8	101.7
HM 2767	3.01	90.8	2.43	76.7	3.15	100.0	83.7	89.1
Beta 5833R(1383)	3.89	117.2	3.47	110.1	3.42	108.6	113.7	112.0
Crystal 355	1.92	57.8	1.43	45.0	1.45	46.0	51.4	49.6
HM 2771Rz	3.23	97.3	2.77	87.7	2.87	91.1	92.5	92.0
HM 7172Rz	3.30	99.3	2.81	89.0	2.98	94.6	94.1	94.3
Beta 5411R(1411R)	2.92	87.8	3.23	102.0	3.72	118.1	94.9	102.6
Crystal R442(R451)	2.93	88.2	3.09	98.5	2.80	88.8	93.4	91.8
HM 73Rz(2773Rz)	3.82	114.9	3.61	114.2	3.46	109.8	114.6	113.0
HM 74Rz(2774Rz)	3.43	103.3	3.40	107.4	3.18	101.1	105.4	103.9

Others Tested - 2005 & 2006

	2006		2005		2 Yr
	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>Avg</u>
Crystal Z588	3.76	113.3	3.45	108.9	111.1
Crystal R509(Z589)	3.58	107.7	3.46	108.8	108.3
HM 2780Rz	3.81	114.7	3.14	99.4	107.0
Beta 5930R(1531R)	3.04	91.5	2.84	90.1	90.8
HM 2779Rz	3.49	105.1	3.18	100.9	103.0
Beta B5902RR	5.52	166.4	5.03	159.6	163.0

First Year Varieties- 2006

	2006			2006	
	<u>0-9</u>	<u>%ck</u>		<u>0-9</u>	<u>%ck</u>
Crystal R626	3.75	113.1	Beta 5534N	5.44	163.8
Beta BK1641R	3.71	111.8	Beta 6904RR	4.81	144.8
HM 2782Rz	3.90	117.3	Beta 6905RR	4.46	134.3
SX 1233	3.65	110.0	Crystal C9641RR	4.74	142.7
Beta 1642R	2.85	85.7	Crystal C9642RR	5.37	161.5
HM 7235Rz	5.07	152.6	HM 9013RR	3.92	118.1
HM 2784Rz	3.45	103.9	HM 9027RR	3.60	108.3
HM 2781Rz	3.39	102.1	HM 9028RR	3.71	111.6
Crystal Z627	4.35	130.9	HM 9029RR	3.79	114.1
Beta BK1643N	5.25	158.1			

Michigan Sugar Company Storage RWST Summary 2005

Variety	2005		2004		2003		2 Yr	3 Yr.
	<u>Act.</u>	<u>% ck</u>	<u>Act.</u>	<u>% ck</u>	<u>Act.</u>	<u>% ck</u>	<u>Avg.</u>	<u>Avg</u>
<i>3 Var Check</i>	252.2	100.0	214.0	100.0	267.9	100.0	100.0	100.0
<i>SX Prompt</i>	254.8	101.0	214.2	100.1	279.3	104.3	100.6	101.8
<i>Crystal 963</i>	244.8	97.1	214.9	100.4	254.9	95.1	98.7	97.5
<i>HM 2761Rz</i>	257.1	101.9	212.9	99.5	269.6	100.6	100.7	100.7
Beta 5451	243.5	96.5	216.5	101.2	262.3	97.9	98.9	98.5
Beta 5310	235.4	93.3	211.4	98.8	257.3	96.0	96.1	96.0
HM 2763Rz	252.3	100.0	215.3	100.6	271.0	101.2	100.3	100.6
HM 2767	255.2	101.2	218.5	102.1	271.8	101.4	101.6	101.6
Crystal 271	247.6	98.2	202.0	94.4	258.8	96.6	96.3	96.4
Beta 5833R(1383)	245.6	97.4	213.9	100.0	267.1	99.7	98.7	99.0
Crystal 355	248.2	98.4	222.0	103.7	281.6	105.1	101.1	102.4
HM 2771 Rz	256.7	101.8	213.2	99.6	270.8	101.1	100.7	100.8
HM 7172 Rz	242.5	96.1	208.3	97.3	275.8	103.0	96.7	98.8

2nd & 3rd Year Varieties (2005 & 2004)

	2005		2004		2 Yr
	<u>Act.</u>	<u>% ck</u>	<u>Act.</u>	<u>% ck</u>	<u>Avg.</u>
Beta 5411R(1411R)	251.7	99.8	201.9	94.3	97.1
Crystal R442(R451)	256.2	101.6	192.8	90.1	95.8
HM 73Rz(2773Rz)	248.4	98.5	231.3	108.1	103.3
HM 74Rz(2774Rz)	242.0	95.9	212.4	99.3	97.6

First Year Varieties (2005)

	2005	
	<u>Act.</u>	<u>% ck</u>
Crystal Z588	268.9	106.6
Crystal R509(Z589)	261.5	103.7
Beta 5930R(1531R)	253.6	100.6
HM 2779Rz	251.5	99.7
HM 2780Rz	233.7	92.7
*Beta 5902RR	250.6	102.1

* These varieties were tested in a separate trial from the Official Variety Trial.

Michigan Sugar Company
Variety Trials
2006

First Year Varieties

<u>Variety</u>	RWST <u>Need 98.38%</u>		RWSA <u>Need 98.93%</u>		LEAFSPOT <u>Need 110.9 or Less</u>	
Meet Approval Standards						
SX 1233	Yes	100.5	Yes	99.4	Yes	110.0
HM 2781Rz	Yes	99.4	Yes	103.7	Yes	102.1
Beta 1642R	Yes	99.8	No	98.8	Yes	85.7
HM 2784Rz	Yes	98.5	No	94.6	Yes	103.9
Beta BK1641R	Yes	100.9	Yes	101.4	No	111.8
Crystal R626	Yes	102.4	Yes	102.4	No	113.1
HM 2782Rz	No	96.8	No	97.4	No	117.3
Crystal Z627	Yes	101.4	Yes	105.3	No	130.9
HM 7235Rz	Yes	98.8	No	98.0	No	152.6
Roundup Resistant Varieties						
HM 9027RR	No	97.4	Yes	106.0	Yes	108.3
HM 9028RR	Yes	98.6	Yes	109.4	No	111.6
HM 9029RR	No	97.6	Yes	107.4	No	114.1
HM 9013RR	No	94.7	Yes	101.6	No	118.1
Beta B6905RR	No	92.5	Yes	106.6	No	134.3
Crystal C9641RR	No	94.3	Yes	112.3	No	142.7
Beta B6904RR	No	91.5	Yes	108.3	No	144.8
Crystal C9642RR	Yes	105.7	Yes	108.7	No	161.5
Nematode Resistant Varieties						
Beta BK1643N	Yes	103.0	Yes	116.4	No	158.1

Michigan Sugar Company

Roundup Resistant Varieties 2006

<u>Variety</u>	<u>RWST</u> <u>Need 98.38%</u>		<u>RWSA</u> <u>Need 98.93%</u>		<u>LEAFSPOT</u> <u>Need 110.9 or Less</u>	
HM 9027RR	No	97.4	Yes	106.0	Yes	108.3
HM 9028RR	Yes	98.6	Yes	109.4	No	111.6
HM 9029RR	No	97.6	Yes	107.4	No	114.1
HM 9013RR	No	94.7	Yes	101.6	No	118.1
Beta B6905RR	No	92.5	Yes	106.6	No	134.3
Crystal C9641RR	No	94.3	Yes	112.3	No	142.7
Beta B6904RR	No	91.5	Yes	108.3	No	144.8
Crystal C9642RR	Yes	105.7	Yes	108.7	No	161.5
*Beta B5902RR	Yes	101.5	Yes	110.6	No	163.0

* Tested two years, results are the average of two years.

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
LSD (P=.05)		431	7.0	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by RWST

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
LSD (P=.05)		431	7.0	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by % Sucrose

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
LSD (P=.05)		431	7.0	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by % Purity

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
LSD (P=.05)		431	7.03	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by Tons/Acre

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
LSD (P=.05)		431	7.03	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by % Emergence

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
LSD (P=.05)		431	7.03	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Average of 4 Locations
 Sorted by Cercospora Resistance

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS* Rating
22	Crystal 355	7758	252.9	17.32	94.46	30.43	58.2	1.92
1	Beta 5310	7916	257.1	17.43	94.98	30.53	63.3	2.38
13	Beta 1642R	7513	255.7	17.52	94.43	29.08	47.7	2.85
9	Beta 5411R	7658	253.1	17.51	93.98	29.80	56.8	2.92
26	Crystal R442	7900	256.5	17.69	94.09	30.64	59.6	2.93
24	Beta 5451	8028	262.2	17.83	94.76	30.36	64.7	2.95
8	HM 2767	7672	265.9	17.93	95.14	28.52	65.1	3.02
28	Beta 5930R(1531R)	7917	257.3	17.75	94.07	30.28	50.4	3.04
20	Crystal 963	8093	258.4	17.60	94.71	31.03	69.3	3.17
31	HM 2771Rz	7437	257.0	17.46	94.86	28.61	60.7	3.23
15	SX Prompt	7333	257.2	17.77	94.03	28.31	68.8	3.27
18	HM 7172Rz	7343	245.6	17.10	93.82	29.77	60.0	3.30
17	Crystal 271	8139	259.2	17.73	94.48	31.11	67.7	3.34
27	HM 2781Rz	7883	254.6	17.36	94.71	30.78	65.9	3.39
3	HM 74Rz	7846	245.2	17.02	93.90	31.66	65.3	3.43
23	HM 2784Rz	7188	252.4	17.14	94.89	28.25	68.8	3.45
12	HM 2779Rz	7872	248.2	17.14	94.17	31.60	67.3	3.49
16	HM E-17	7591	262.7	17.87	94.72	28.44	70.2	3.49
14	HM 2761Rz	7378	252.9	17.39	94.31	28.89	66.1	3.52
11	Crystal R509(Z589)	7652	248.6	17.01	94.58	30.34	64.5	3.58
7	SX 1233	7552	257.4	17.52	94.76	29.06	61.3	3.65
29	HM 2763Rz	7406	257.7	17.45	95.01	28.28	64.5	3.66
4	Beta BK1641R	7706	258.6	17.45	95.18	29.48	63.0	3.71
2	Crystal R626	7781	262.4	18.03	94.19	29.66	47.4	3.76
6	Crystal Z588	7674	254.3	17.28	94.92	29.91	70.9	3.76
10	HM 2780Rz	7587	253.3	17.15	95.04	29.37	67.9	3.81
25	HM 73Rz	7596	256.0	17.48	94.58	29.25	59.5	3.82
19	Beta 5833R	8020	251.8	17.04	95.12	31.74	65.5	3.89
5	HM 2782Rz	7405	247.9	16.92	94.74	29.61	68.1	3.90
30	Crystal Z627	8007	259.7	17.77	94.46	30.46	61.6	4.35
21	HM 7235Rz	7451	253.1	17.44	94.20	29.13	70.5	5.07
LSD (P=.05)		431	7.03	0.38	0.48	1.56	5.97	0.43
CV		3.96	1.95	1.54	0.36	3.70	5.78	7.1
Grand Mean		7687	255.3	17.45	94.56	29.82	63.2	3.73

* Lower number indicates more resistance.

Plot Size: 2 row X 35 ft
 Cercospora Sprays: 3-4

Row Spacing: 30 inch
 Quadris: 6-8 leaf stage

Michigan Sugar Company
 Official Variety Trial 2006
 Stoutenburg Farms - Sandusky, MI

No.	Variety	RWSA	RWST	Sugar %	Purity %	Ton/A
28	Beta 5930R(1531R)	10475	277.5	18.83	94.72	36.83
26	Crystal R442	10134	274.3	18.74	94.39	36.93
8	HM 2767	10085	285.7	19.07	95.44	35.28
1	Beta 5310	10018	275.7	18.55	95.14	36.35
24	Beta 5451	9997	278.9	18.89	94.80	35.62
3	HM 74Rz	9913	258.0	17.83	94.00	38.02
19	Beta 5833R	9850	266.3	17.92	95.26	36.88
17	Crystal 271	9839	272.3	18.52	94.63	35.87
12	HM 2779Rz	9824	257.0	17.70	94.19	38.26
27	HM 2781Rz	9800	262.1	18.00	94.29	37.33
20	Crystal 963	9787	274.8	18.63	94.77	35.67
11	Crystal R509(Z589)	9763	268.6	18.28	94.66	36.27
4	Beta BK1641R	9745	270.7	18.24	95.14	36.14
9	Beta 5411R	9667	271.8	18.66	94.20	35.51
29	HM 2763Rz	9662	274.7	18.45	95.25	34.88
13	Beta 1642R	9638	272.8	18.75	94.11	35.34
6	Crystal Z588	9634	264.9	17.95	94.91	36.17
22	Crystal 355	9595	270.7	18.25	95.11	35.53
16	HM E-17	9563	282.9	19.03	95.05	33.78
30	Crystal Z627	9542	271.2	18.62	94.17	35.24
14	HM 2761Rz	9465	266.1	18.11	94.70	35.61
31	HM 2771Rz	9438	276.7	18.59	95.20	34.12
25	HM 73Rz	9421	274.2	18.58	94.82	34.33
10	HM 2780Rz	9397	273.0	18.25	95.52	34.55
7	SX 1233	9393	269.5	18.29	94.78	34.77
2	Crystal R626	9381	268.1	18.49	94.00	35.76
21	HM 7235Rz	9346	261.8	17.95	94.35	35.70
5	HM 2782Rz	9296	264.8	18.04	94.65	35.25
23	HM 2784Rz	9203	265.3	17.97	94.95	34.68
15	SX Prompt	9184	269.4	18.62	93.89	33.71
18	HM 7172Rz	8989	254.9	17.74	93.71	35.28
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LSD (P=.05)		634.7	12.1	0.61	0.77	1.8
CV		6.65	4.52	3.33	0.82	5.14
Grand Mean		9647	270.2	18.37	94.67	35.67

Trial Quality: V. Good
 Planting Date: April 27
 Harvest Date: October 16
 Plot Size: 2 row X 35 ft
 Problems: Minimal

Reps: 8
 Row Spacing: 30 inch
 Quadris: 6-8 leaf stage
 Cercospora Sprays: 4

Michigan Sugar Company
 Official Variety Trial 2006
 Bebow Farms - St. Louis, MI

No.	Variety	RWSA	RWST	Sugar %	Purity %	Ton/A	%Emerg
17	Crystal 271	6656	231.5	15.90	94.71	28.79	73.9
1	Beta 5310	6472	226.1	15.38	95.36	28.56	71.8
26	Crystal R442	6472	228.9	15.83	94.40	28.29	66.9
20	Crystal 963	6390	232.1	15.81	95.16	27.48	73.5
30	Crystal Z627	6353	236.4	16.18	94.84	26.66	69.8
24	Beta 5451	6308	235.3	16.08	94.94	26.80	71.3
22	Crystal 355	6295	226.2	15.71	94.25	27.81	69.8
27	HM 2781Rz	6283	232.9	15.99	94.73	26.95	74.8
16	HM E-17	6267	237.8	16.23	94.95	26.31	80.5
2	Crystal R626	6251	233.1	16.13	94.31	26.82	54.8
21	HM 7235Rz	6201	239.5	16.39	94.76	25.87	79.0
13	Beta 1642R	6148	228.5	15.84	94.30	26.90	57.8
19	Beta 5833R	6133	224.7	15.38	95.03	27.24	67.0
28	Beta 5930R(1531R)	6114	225.4	15.68	94.16	27.14	54.5
3	HM 74Rz	6114	217.0	15.27	93.78	28.18	78.0
12	HM 2779Rz	6090	219.7	15.22	94.49	27.77	76.7
11	Crystal R509(Z589)	6064	219.7	15.25	94.38	27.13	69.1
23	HM 2784Rz	6041	227.4	15.52	94.96	26.38	80.1
9	Beta 5411R	5955	221.2	15.38	94.26	26.94	64.3
7	SX 1233	5889	228.1	15.67	94.75	25.78	70.8
15	SX Prompt	5844	232.5	16.13	94.22	25.04	76.1
8	HM 2767	5827	235.7	16.07	95.00	24.75	73.8
6	Crystal Z588	5794	223.0	15.42	94.67	26.04	80.2
25	HM 73Rz	5789	231.6	15.94	94.61	25.00	69.8
5	HM 2782Rz	5762	219.0	14.99	95.10	26.43	72.0
4	Beta BK1641R	5693	226.2	15.38	95.33	25.22	69.3
14	HM 2761Rz	5661	228.6	15.75	94.60	24.74	74.8
18	HM 7172Rz	5571	220.8	15.39	94.16	25.18	68.0
31	HM 2771Rz	5523	225.0	15.38	95.06	24.56	75.0
10	HM 2780Rz	5454	224.9	15.40	95.02	24.44	74.1
29	HM 2763Rz	5385	229.5	15.74	94.83	23.50	77.0
Grand Mean		6026	228.0	15.69	94.68	26.41	71.0
LSD (P=.05)		491	12.0	0.71	0.72	1.57	7.5
CV		8.2	5.4	4.63	0.77	6.01	10.8

Trial Quality: V. Good
 Planting Date: April 26
 Harvest Date: October 21
 Plot Size: 2 row X 35 ft
 Problems: Minimal

Reps: 8
 Row Spacing: 30 inch
 Quadris: 6-8 leaf stage
 Cercospora Sprays: 3

Russell Farms - Akron, MI
 Official Variety Trial 2006
 Russell Farms - Akron, MI

No.	Variety	RWSA	RWST	Sugar %	Purity %	Ton/A	%Emerg
30	Crystal Z627	9898	294.1	19.45	95.83	33.67	51.1
20	Crystal 963	9732	298.0	19.65	95.96	32.61	62.6
17	Crystal 271	9486	295.8	19.55	95.85	32.07	59.9
4	Beta BK1641R	9405	293.7	19.25	96.31	32.04	51.9
22	Crystal 355	9217	290.7	19.15	96.07	31.72	41.6
2	Crystal R626	9107	305.8	20.11	96.01	29.76	37.7
10	HM 2780Rz	9093	281.4	18.59	95.78	30.92	60.5
19	Beta 5833R	9040	283.2	18.47	96.71	31.94	55.2
24	Beta 5451	9039	298.6	19.67	96.02	30.25	49.3
12	HM 2779Rz	9015	281.8	18.85	95.40	32.24	52.4
9	Beta 5411R	9005	291.6	19.40	95.54	30.37	45.9
3	HM 74Rz	8914	282.1	18.86	95.42	31.61	48.5
5	HM 2782Rz	8871	289.4	19.09	96.03	30.61	60.5
21	HM 7235Rz	8860	287.1	19.25	95.21	30.84	55.2
25	HM 73Rz	8856	289.5	19.18	95.77	29.91	48.5
1	Beta 5310	8839	292.4	19.26	96.06	30.11	49.8
6	Crystal Z588	8836	290.3	19.16	96.00	30.39	53.9
18	HM 7172Rz	8820	288.4	19.18	95.90	31.17	48.5
29	HM 2763Rz	8802	288.7	18.96	96.30	30.48	49.3
11	Crystal R509(Z589)	8787	285.0	18.76	96.20	30.84	54.1
7	SX 1233	8771	292.3	19.34	95.84	29.99	49.2
8	HM 2767	8741	292.9	19.21	96.32	29.84	59.0
27	HM 2781Rz	8725	287.3	18.88	96.24	30.36	54.6
31	HM 2771Rz	8716	293.6	19.31	96.16	29.70	49.2
13	Beta 1642R	8707	298.0	19.44	96.54	29.23	37.9
28	Beta 5930R(1531R)	8689	296.7	19.78	95.40	29.29	44.8
26	Crystal R442	8624	295.2	19.56	95.72	29.23	51.1
14	HM 2761Rz	8527	285.2	19.04	95.43	29.92	56.8
23	HM 2784Rz	8406	288.3	19.01	96.05	29.59	55.2
16	HM E-17	8293	289.9	19.24	95.70	28.39	58.3
15	SX Prompt	7865	293.1	19.58	95.33	26.86	61.0

LSD (P=.05)	932.0	12.4	0.67	0.70	2.92	11.4
CV	8.4	3.4	2.8	0.6	7.6	17.6
Grand Mean	8893.1	291.0	19.23	95.91	30.51	51.8

Trial Quality: Good
 Planting Date: April 19
 Harvest Date: November 1
 Plot Size: 2 row X 35 ft
 Problems: Water damage

Reps: 5
 Row Spacing: 30 inch
 Quadris: 8 leaf stage
 Cercospora Sprays: 4
 Grower: Dave Russell

Michigan Sugar Company
 Official Variety Trial 2006
 Brian Schwab - Kawkawlin, MI

No.	Variety	RWSA	RWST	Sugar %	Purity %	Ton/A	%Emerg
19	Beta 5833R	7058	232.8	16.40	93.45	30.89	74.2
24	Beta 5451	6768	236.0	16.67	93.29	28.75	73.5
27	HM 2781Rz	6724	236.0	16.58	93.58	28.49	68.3
17	Crystal 271	6576	237.1	16.93	92.72	27.69	69.2
12	HM 2779Rz	6559	234.2	16.78	92.60	28.15	72.7
20	Crystal 963	6464	228.7	16.31	92.97	28.36	71.9
3	HM 74Rz	6443	223.5	16.13	92.40	28.83	69.5
15	SX Prompt	6440	233.9	16.74	92.69	27.64	69.4
6	Crystal Z588	6432	239.1	16.59	94.11	27.04	78.7
10	HM 2780Rz	6404	234.0	16.36	93.84	27.56	69.2
28	Beta 5930R(1531R)	6390	229.5	16.70	91.99	27.85	51.9
2	Crystal R626	6383	242.5	17.39	92.46	26.28	49.9
26	Crystal R442	6368	227.5	16.61	91.84	28.09	60.7
1	Beta 5310	6336	234.4	16.53	93.35	27.11	68.3
25	HM 73Rz	6318	228.5	16.23	93.11	27.75	60.2
16	HM E-17	6243	240.2	16.97	93.19	25.29	71.7
30	Crystal Z627	6235	237.1	16.83	92.99	26.29	63.8
7	SX 1233	6156	239.7	16.78	93.65	25.71	63.8
31	HM 2771Rz	6070	232.9	16.55	93.01	26.04	57.7
8	HM 2767	6034	249.5	17.37	93.78	24.21	62.3
9	Beta 5411R	6005	227.6	16.59	91.90	26.38	60.1
11	Crystal R509(Z589)	5994	220.9	15.75	93.07	27.11	70.2
18	HM 7172Rz	5990	218.5	16.11	91.52	27.45	63.4
4	Beta BK1641R	5982	243.7	16.94	93.92	24.53	67.9
22	Crystal 355	5924	224.0	16.16	92.40	26.65	63.2
14	HM 2761Rz	5859	231.9	16.66	92.51	25.30	66.8
29	HM 2763Rz	5772	238.1	16.66	93.69	24.27	67.3
5	HM 2782Rz	5690	218.6	15.56	93.20	26.16	71.7
13	Beta 1642R	5557	223.4	16.03	92.77	24.86	47.4
21	HM 7235Rz	5396	223.9	16.15	92.47	24.11	77.4
23	HM 2784Rz	5101	228.7	16.06	93.60	22.32	70.9

LSD (P=.05)	666.8	15.9	0.93	1.04	2.67	7.5
CV	10.19	6.49	5.3	1.06	9.46	10.83
Grand Mean	6183	232.2	16.52	92.97	26.68	65.6

Trial Quality: Fair
 Planting Date: April 21
 Harvest Date: September 26
 Plot Size: 2 row X 35 ft
 Problems: Rhizoctonia

Reps: 7
 Row Spacing: 30 inch
 Quadris: 8 leaf stage
 Cercospora Sprays: 3

Michigan Sugar Company
 Official Variety Trial 2006
 Pigeon, MI

Moderate Rhizomania Confirmed - Not Included in Average

No.	Variety	RWSA	RWST	Sugar %	Purity %	Ton/A	%Emerg
25	HM 73Rz	8443	266.9	18.29	94.34	31.65	56.3
4	Beta BK1641R	8354	268.2	18.13	95.02	31.17	58.2
3	HM 74Rz	8284	261.3	18.05	93.98	31.66	65.1
29	HM 2763Rz	8157	263.4	17.78	95.14	30.88	63.7
19	Beta 5833R	8018	258.3	17.67	94.51	31.11	65.9
12	HM 2779Rz	7986	249.0	17.46	93.44	32.21	76.6
6	Crystal Z588	7956	265.0	18.27	94.04	30.01	62.4
30	Crystal Z627	7911	265.1	18.15	94.38	29.91	58.3
5	HM 2782Rz	7851	262.8	17.78	95.04	29.89	65.2
28	Beta 5930R(1531R)	7774	250.7	17.35	94.05	31.04	45.6
26	Crystal R442	7705	252.5	17.35	94.38	30.42	60.9
14	HM 2761Rz	7602	264.2	18.09	94.40	28.82	61.0
31	HM 2771Rz	7566	260.4	18.09	93.73	29.05	63.1
10	HM 2780Rz	7544	260.4	17.70	94.83	29.05	68.5
2	Crystal R626	7464	255.4	17.53	94.39	29.25	48.2
7	SX 1233	7403	260.1	17.90	94.21	28.61	62.0
21	HM 7235Rz	7401	257.5	17.66	94.43	28.74	68.7
27	HM 2781Rz	7391	262.0	18.09	94.03	28.20	67.0
11	Crystal R509(Z589)	7261	258.7	18.02	93.66	28.06	58.7
18	HM 7172Rz	7191	254.8	17.85	93.42	28.21	58.7
13	Beta 1642R	7164	248.9	17.34	93.76	28.80	45.0
9	Beta 5411R	7111	251.4	17.30	94.35	28.27	58.8
8	HM 2767	6984	247.7	16.79	95.13	27.86	62.1
23	HM 2784Rz	6907	246.9	16.94	94.57	28.03	64.8
20	Crystal 963	6843	246.5	16.71	95.16	27.71	65.8
22	Crystal 355	6646	231.3	15.97	94.44	28.68	61.9
16	HM E-17	6176	244.5	16.65	94.98	25.15	68.0
17	Crystal 271	6157	238.1	16.22	95.01	25.75	61.4
24	Beta 5451	6140	237.6	16.60	93.69	25.76	55.8
15	SX Prompt	5955	242.2	16.77	94.39	23.56	64.3
1	Beta 5310	5651	238.0	16.30	94.78	23.64	61.8
Grand Mean		7323	253.9	17.44	94.38	28.75	60.7
LSD (P=.05)		774	12.9	0.73	0.75	2.70	10.4
CV		10.7	5.1	4.23	0.80	9.48	17.5

Trial Quality: Fair
 Planting Date: April 19
 Harvest Date: October 6
 Plot Size: 2 row X 35 ft
 Problems: Rhizoc, Rhizom

Reps: 8
 Row Spacing: 30 inch
 Quadris: 8 leaf stage
 Cercospora Sprays: 4

Michigan Sugar Company
 STORAGE TRIAL
 2005
 Carrollton (Stoutenburg)

No.	Variety	RWST	% Sugar	% CJP	Rot	
					Internal	External
4	Crystal Z588	259.0	16.91	93.10	1.0	2.8
12	SX Prompt	257.8	16.78	93.25	0.7	1.9
19	Beta 5800R	257.7	16.83	93.07	0.4	0.5
14	Crystal 271	256.9	16.86	92.87	1.6	4.7
10	Crystal Z589	256.6	16.67	93.38	1.2	1.5
31	Beta 4381R	254.3	16.35	93.97	1.3	2.5
1	HM 2761Rz	253.3	16.93	91.99	0.8	1.5
18	Crystal R451	252.6	16.79	92.29	1.5	2.3
24	Beta BK1533R	251.9	16.45	93.17	0.1	0.3
23	Crystal 963	251.8	16.42	93.24	1.2	2.8
25	HM 2763Rz	249.8	16.30	93.18	1.4	5.2
11	HM 2767	249.3	16.56	92.35	1.8	3.3
15	HM 2771Rz	248.4	16.15	93.41	1.1	1.8
26	Crystal R587	248.2	16.73	91.64	1.6	0.8
27	HM 2779Rz	246.6	16.68	91.40	1.5	3.7
17	HM 1656Rz	245.2	16.23	92.59	1.3	2.4
28	Beta 5451	243.2	16.32	91.91	1.3	3.5
20	HM 2773Rz	241.5	16.13	92.12	1.8	5.3
29	Crystal A355	241.5	15.94	92.72	1.7	1.8
21	Beta BK1531R	241.3	16.44	91.14	1.8	3.5
2	SX 1232	241.0	16.24	91.69	0.7	1.4
7	HM 1655Rz	239.4	16.04	92.02	1.3	2.0
8	Beta 5833R	239.3	15.70	92.96	1.1	1.7
3	Beta 5310	238.5	16.01	92.45	1.5	3.8
16	Beta 1411R	237.3	15.99	91.63	1.8	3.2
22	HM 2774Rz	237.2	15.88	92.06	0.6	2.2
30	HM 7172Rz	232.6	15.89	91.16	0.9	1.5
6	Beta BK1532R	230.1	15.89	90.63	1.2	3.2
9	HM 2778	223.1	15.26	91.08	1.9	5.1
13	HM 2780Rz	217.0	14.91	91.02	2.0	5.9
Grand Mean		244.7	16.27	92.32	1.3	2.7
LSD (P=.05)		19.8	1.03	1.33	0.8	2.9
CV		7.1	5.54	1.26	57.0	92.9

Michigan Sugar Company
STORAGE TRIAL
2005
Capac (Bebow Farms)

No.	Variety	RWST	% Sugar	% CJP	Rot	
					Internal	External
4	Crystal Z588	278.8	17.58	94.74	0.3	0.0
31	Beta 4381R	274.6	17.10	95.51	0.9	0.2
10	Crystal Z589	266.4	16.83	94.79	0.9	1.0
26	Crystal R587	266.4	17.25	93.47	1.2	0.3
16	Beta 1411R	266.2	17.15	93.73	1.9	0.0
21	Beta BK1531R	266.0	16.98	94.22	1.1	0.4
24	Beta BK1533R	265.8	16.79	94.82	0.6	0.2
15	HM 2771Rz	265.0	16.90	94.31	1.3	1.5
19	Beta 5800R	262.7	16.64	94.71	0.5	0.0
11	HM 2767	261.0	16.60	94.49	1.6	1.2
1	HM 2761Rz	260.9	16.50	94.78	1.1	0.0
6	Beta BK1532R	260.3	17.07	92.81	1.6	0.7
18	Crystal R451	259.7	16.67	94.00	1.6	1.2
2	SX 1232	259.4	16.78	93.56	1.0	0.3
27	HM 2779Rz	256.4	16.41	94.20	1.2	0.5
20	HM 2773Rz	255.3	16.23	94.29	1.2	0.7
29	Crystal A355	254.9	16.25	94.43	1.3	1.5
25	HM 2763Rz	254.8	16.19	94.59	1.4	1.0
17	HM 1656Rz	254.6	16.21	94.48	1.7	1.0
30	HM 7172Rz	252.3	16.26	93.83	1.3	0.0
8	Beta 5833R	252.0	16.10	94.27	1.1	1.5
12	SX Prompt	251.8	16.27	93.71	1.6	1.0
7	HM 1655Rz	250.9	16.22	93.71	1.3	0.8
13	HM 2780Rz	250.4	16.22	93.62	1.6	1.2
22	HM 2774Rz	246.7	16.01	93.51	1.1	0.2
28	Beta 5451	243.7	15.87	93.30	2.5	6.0
9	HM 2778	239.0	15.38	94.08	1.5	1.0
14	Crystal 271	238.4	15.44	93.61	1.3	1.8
23	Crystal 963	237.8	15.78	92.27	1.7	3.5
3	Beta 5310	232.3	15.12	93.42	2.4	3.3
Grand Mean		256.2	16.43	94.04	1.3	1.1
LSD (P=.05)		20.6	0.99	1.37	0.6	2.3
CV		7.0	5.27	1.28	41.1	189.6

Michigan Sugar Company
BIOTECH STORAGE TRIAL

2005

Carrollton and Capac

Variety Approval

No.	Variety	RWST
8	Crystal 963	251.1
5	Beta B5902 RR	250.6
2	Beta B5903 RR	245.1
3	SX Prompt	243.9
1	HM 2761 Rz	241.1
Grand Mean		246.4
LSD (P=.05)		N/S
CV		4.87

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by RWSA

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by RWST

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by Sucrose %

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by Purity %

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by Tons/Acre

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by Emergence

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
Biotech Variety Trial 2006
Average of 5 Locations¹
Sorted by Cercospora Resistance

No Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ² Rating
10 Crystal 963	7469	251.2	17.26	94.35	29.81	56.7	3.17
8 SX Prompt	6979	245.7	17.18	93.57	28.43	56.0	3.27
4 HM E-17	7315	260.9	17.70	94.86	28.10	58.6	3.49
13 HM 2761Rz	7154	245.1	16.94	94.18	29.07	57.2	3.52
9 HM 9027RR	7632	240.9	16.70	94.11	31.80	48.1	3.60
12 HM 9028RR	7878	243.9	16.78	94.39	32.46	48.2	3.71
3 HM 9029RR	7732	241.3	16.67	94.26	32.09	43.4	3.79
6 HM 9013RR	7314	234.2	16.32	93.87	31.26	48.8	3.92
1 Beta B6905RR	7676	228.8	15.75	94.60	33.79	53.1	4.46
2 Crystal C9641RR	8087	233.1	16.00	94.65	34.53	51.6	4.74
11 Beta B6904RR	7799	226.2	15.65	94.40	34.59	35.8	4.81
7 Crystal C9642RR	7830	261.3	17.72	94.90	30.02	56.4	5.37
5 Beta B5902RR	7806	253.7	17.53	94.01	30.74	54.8	5.52
LSD (P=.05)	298.4	6.95	0.39	0.35	1.21	8.27	0.43
CV	3.08	2.23	1.8	0.29	3.02	11.25	7.11
Grand Mean	7590	243.6	16.78	94.32	31.28	51.4	3.73

¹ Trial Locations: Bebow Farm - Breckenridge, Russell Farm - Akron, Spero Farm - Albee, Stoutenburg Farm - Sandusky, BB Farm, Saginaw. The Pigeon trial was not included in the summary because Rhizomania was detected at that site.

² CLS Rating from Cercospora Nursery Trials
Lower number indicates more resistance.

Quality of Trials: 2 trials were rated very good, 1 was good, 1 was fair-good and 1 was fair (acceptable).

Michigan Sugar Company
 Biotech Variety Trial 2006
 Stoutenburg Farm - Sandusky, MI
 Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	CLS ¹ 0-9
2	Crystal C9641RR	10388	248.9	17.05	94.54	41.23	2.71
12	HM 9028RR	9783	251.3	17.62	93.40	39.00	2.25
7	Crystal C9642RR	9679	273.3	18.71	94.30	35.43	2.79
5	Beta B5902RR	9632	272.3	18.85	93.76	35.45	3.13
1	Beta B6905RR	9559	251.9	17.32	94.37	37.97	2.92
3	HM 9029RR	9425	250.6	17.61	93.32	37.62	2.21
4	HM E-17	9416	279.7	19.04	94.49	33.68	2.21
9	HM 9027RR	9335	249.4	17.57	93.19	37.46	2.17
11	Beta B6904RR	9269	236.8	16.52	93.87	39.13	2.96
8	SX Prompt	9101	261.5	18.38	93.16	34.82	2.04
10	Crystal 963	9062	261.7	18.14	93.84	34.62	2.08
13	HM 2761Rz	9008	254.9	17.86	93.38	35.31	2.13
6	HM 9013RR	8860	240.3	16.98	93.18	36.89	2.25
LSD (P=.05)		548.1	12.8	0.59	0.95	2.04	0.27
CV		5.0	4.3	2.9	0.9	4.8	9.8
Grand Mean		9424.3	256.4	17.82	93.75	36.82	2.45

¹ CLS Rating taken prior to harvest showing Cercospora damage with responsible spray program in Lower number indicates more resistance.

Trial Quality: V. Good

Plant: April 27

Harvest: October 16

Plot Size: 6 rows X 35 ft

Problems: Some Cercospora apparent in Beta and Crystal RR varieties

Reps: 6

Row Spacing: 30 inches

Quadris: 6-8 leaf stage

Cercospora Sprays: 4

Michigan Sugar Company
 Biotech Variety Trial 2006
 Bebow Farm - St. Louis, MI
 Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
12	HM 9028RR	6898	229.8	15.89	94.41	30.01	54.0
3	HM 9029RR	6888	226.0	15.69	94.26	30.47	51.6
5	Beta B5902RR	6870	236.7	16.66	93.43	29.07	64.8
11	Beta B6904RR	6834	213.9	14.96	94.08	31.95	38.6
7	Crystal C9642RR	6758	247.4	16.89	94.78	27.30	63.1
2	Crystal C9641RR	6654	216.1	15.05	94.28	30.82	59.7
1	Beta B6905RR	6627	214.4	14.87	94.53	30.93	59.7
9	HM 9027RR	6460	230.8	16.08	94.08	28.15	55.3
4	HM E-17	6439	249.1	16.98	94.65	26.45	70.9
10	Crystal 963	6406	230.5	16.01	94.18	27.85	66.7
6	HM 9013RR	6368	225.1	15.74	93.92	28.23	56.9
8	SX Prompt	6011	229.3	16.35	92.82	26.34	68.5
13	HM 2761Rz	5815	223.1	15.63	93.86	26.04	65.3
LSD (P=.05)		459.9	11.42	0.61	0.69	1.78	3.8
CV		6.1	4.3	3.3	0.6	5.4	5.5
Grand Mean		6540.4	228.63	15.91	94.10	28.74	60.0

Trial Quality: V. Good
 Plant: April 26
 Harvest: September 22
 Plot Size: 6 rows X 35 ft
 Problems: Some Cercospora apparent in
 Beta and Crystal RR varieties

Reps: 6
 Row Spacing: 30 inches
 Quadris: 6-8 leaf stage
 Cercospora Sprays: 3

Michigan Sugar Company
 Biotech Variety Trial 2006
 Russell Farm - Akron, MI
 Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS ¹ 0-9
2	Crystal C9641RR	9097	268.2	17.98	95.43	33.68	52.8	2.7
12	HM 9028RR	8921	284.0	19.01	95.35	31.40	51.7	2.5
5	Beta B5902RR	8756	297.3	19.97	94.99	29.48	55.9	3.1
3	HM 9029RR	8649	282.5	19.00	95.09	30.63	43.3	2.5
1	Beta B6905RR	8588	259.3	17.41	95.46	33.11	56.6	2.6
9	HM 9027RR	8584	282.1	19.13	94.69	30.42	52.8	2.3
11	Beta B6904RR	8568	260.9	17.48	95.57	32.81	33.0	3.1
7	Crystal C9642RR	8551	298.6	19.67	96.03	28.61	67.8	3.1
6	HM 9013RR	8516	276.2	18.73	94.74	30.53	52.2	2.6
10	Crystal 963	8385	295.8	19.72	95.42	28.34	60.1	1.9
13	HM 2761Rz	8032	282.2	19.08	94.82	28.05	62.9	2.2
4	HM E-17	7973	294.0	19.55	95.57	27.14	66.6	2.5
8	SX Prompt	7800	284.2	19.28	94.64	27.45	61.7	2.1
LSD (P=.05)		678	9.3	0.54	0.63	2.14	13.3	0.3
CV		6.9	8.9	2.5	0.6	6.2	20.6	8.5
Grand Mean		8494	281.9	18.92	95.21	30.13	56.03	2.5

¹ CLS Rating taken prior to harvest showing Cercospora damage with responsible spray program in effect
 Lower number indicates more resistance.

Trial Quality: Good

Plant: April 19

Harvest: November 2

Plot Size: 6 rows X 35 ft

Problems: Some Cercospora apparent in

Beta and Crystal RR varieties

Reps: 6

Row Spacing: 30 inches

Quadris: 6-8 leaf stage

Cercospora Sprays: 4

Michigan Sugar Company
 Biotech Variety Trial 2006
 Spero Farm - Albee, MI
 Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
2	Crystal C9641RR	7985	199.5	14.34	93.08	40.04	67.1
5	Beta B5902RR	7751	222.7	15.91	92.61	33.93	72.9
7	Crystal C9642RR	7751	229.6	16.27	93.19	33.75	69.6
1	Beta B6905RR	7693	196.4	14.20	92.81	39.19	68.4
11	Beta B6904RR	7567	192.6	13.98	92.73	39.25	41.8
12	HM 9028RR	7539	209.2	15.03	92.88	36.09	61.2
3	HM 9029RR	7391	211.3	15.15	92.96	34.99	51.8
9	HM 9027RR	7259	201.5	14.61	92.58	36.11	57.6
10	Crystal 963	7129	220.9	15.82	92.83	32.37	74.0
4	HM E-17	7092	237.5	16.59	93.77	29.83	73.4
13	HM 2761Rz	6899	219.3	15.69	92.90	31.46	76.2
6	HM 9013RR	6712	193.3	14.25	91.99	34.73	60.0
8	SX Prompt	6528	208.6	15.26	92.03	31.31	71.4
LSD (P=.05)		722.51	13.27	0.77	0.90	2.96	3.96
CV		8.5	5.5	4.4	0.8	7.3	5.3
Grand Mean		7330.5	211.0	15.16	92.80	34.85	65.0

Trial Quality: Fair to Good
 Plant: April 27
 Harvest: October 29
 Plot Size: 6 rows X 35 ft
 Problems: Some Cercospora apparent in
 Beta and Crystal RR varieties

Reps: 6
 Row Spacing: 30 inches
 Quadris: 6-8 leaf stage
 Cercospora Sprays: 3

Michigan Sugar Company
Biotech Variety Trial 2006
Bean and Beet Farm - Saginaw, MI
Sorted by RWSA

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
11	Beta B6904RR	6755	226.8	15.30	95.75	29.82	24.7
9	HM 9027RR	6524	240.8	16.09	96.03	26.85	36.6
7	Crystal C9642RR	6409	257.6	17.06	96.23	25.02	45.9
10	Crystal 963	6365	246.9	16.62	95.52	25.89	41.8
2	Crystal C9641RR	6311	233.1	15.58	95.92	26.88	42.7
3	HM 9029RR	6309	236.0	15.90	95.68	26.73	33.2
12	HM 9028RR	6250	245.0	16.34	95.89	25.82	37.3
6	HM 9013RR	6112	235.8	15.93	95.51	25.93	39.7
5	Beta B5902RR	6018	239.2	16.25	95.24	25.76	48.9
13	HM 2761Rz	6018	246.1	16.44	95.94	24.47	47.5
1	Beta B6905RR	5915	222.0	14.96	95.83	27.76	41.6
4	HM E-17	5658	244.2	16.36	95.81	23.40	50.9
8	SX Prompt	5453	245.2	16.62	95.19	22.23	49.0
LSD (P=.05)		712.6	13.0	0.76	0.72	2.90	6.3
CV		9.9	4.7	4.1	0.7	9.7	13.0
Grand Mean		6161.3	239.9	16.11	95.73	25.89	41.9

Trial Quality: Fair
Plant: April 11
Harvest: September 20
Plot Size: 6 rows X 35 ft
Problems: Some Cercospora apparent in
Beta and Crystal RR varieties

Reps: 6
Row Spacing: 30 inches
Quadris: 6-8 leaf stage
Cercospora Sprays: 3

Michigan Sugar Company
Biotech Variety Trial 2006
Pigeon, MI
Sorted by RWSA

Moderate Rhizomania Confirmed - Not Included in Average

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
2	Crystal C9641RR	9231	253.1	17.19	94.86	36.58	58.8
11	Beta B6904RR	9149	243.3	16.65	94.73	37.64	39.0
12	HM 9028RR	9032	255.6	17.54	94.43	35.32	54.3
13	HM 2761Rz	8706	266.7	18.09	94.95	32.38	68.4
6	HM 9013RR	8658	254.7	17.63	93.98	33.99	50.8
9	HM 9027RR	8592	255.5	17.38	94.85	33.62	47.7
1	Beta B6905RR	8577	241.5	16.51	94.80	35.53	57.3
5	Beta B5902RR	8530	250.7	17.20	94.49	33.84	68.5
3	HM 9029RR	8386	252.2	17.36	94.32	33.27	50.1
7	Crystal C9642RR	8155	260.9	17.62	95.20	31.30	61.5
8	SX Prompt	7495	241.9	16.64	94.48	31.12	71.2
10	Crystal 963	7115	240.7	16.43	94.90	29.25	69.3
4	HM E-17	6808	242.3	16.46	95.13	27.86	70.0
LSD (P=.05)		624.5	12.0	0.72	0.78	2.10	8.9
CV		6.5	4.1	3.7	0.7	5.5	13.0
Grand Mean		8341.1	250.7	17.13	94.70	33.21	59.0

Trial Quality: Good

Plant: April 19

Harvest: October 6

Plot Size: 6 rows X 35 ft

Problems: Some Cercospora apparent in
Beta and Crystal RR varieties.
Rhizomania was detected at this site.

Reps: 6

Row Spacing: 30 inches

Quadrats: 6-8 leaf stage

Cercospora Sprays: 4

Michigan Sugar Company
 Small Plot Nematode Variety Trials
 Average of 4 Trials - 2006

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg	CLS Ratings*	
								Field ¹	Nursery ²
1	Beta BK1643N	9056	270.2	18.36	94.66	33.57	67.4	3.3	5.3
4	Beta 5534N	7994	246.9	17.28	93.43	32.51	57.0	3.7	5.4
2	Crystal 963	7987	266.9	18.33	94.14	29.89	60.1	1.9	3.2
5	HM E-17	7784	270.9	18.40	94.62	28.53	61.7	2.4	3.5
6	SX Prompt	7771	262.3	18.13	93.89	29.59	59.9	2.0	3.3
3	HM 2761Rz	7589	257.6	17.77	94.05	29.43	57.3	2.0	3.5
LSD (P=.05)		362	6.54	0.30	0.45	1.70	7.9	0.4	0.43
CV		3.0	1.7	1.1	0.3	3.7	5.1	8.1	7.1
Grand Mean		8030.5	262.48	18.04	94.13	30.59	60.6	2.6	4.03

Summary Trial Locations: Russell(Akron), Stoutenburg(Sandusky), Spero(Saginaw), Schwab(Kawkawlin)

¹ Cercospora 0-9 rating taken from Nematode variety trial at end of season, average of 3.5 fungicide applications.

² Cercospora 0-9 rating taken from the Cercospora Nurseries

* Lower number indicates more resistance.

Michigan Sugar Company
 Small Plot Nematode Variety Trial
 Sandusky Location - 2006

No	Variety	RWSA	RWST	%Suc	%CJP	Tons/A	CLS rate
1	Beta BK1643N	11023	294.4	19.70	95.22	37.46	2.5
2	Crystal 963	9913	286.4	19.48	94.50	34.63	1.3
5	HM E-17	9836	285.7	19.30	94.84	34.36	1.7
4	Beta 5534N	9724	263.9	18.35	93.66	36.85	2.8
6	SX Prompt	9683	281.6	19.31	94.14	34.37	1.6
3	HM 2761Rz	9415	277.5	18.93	94.42	33.90	1.4
LSD (P=.05)		756	11.5	0.58	0.81	2.65	0.3
CV		5.8	3.1	2.3	0.7	5.7	11.6
Grand Mean		9932	281.6	19.18	94.46	35.26	1.8

Trial Quality: Very Good
 Plant: April 27
 Harvest: October 16
 Plot Size: 2 row X 35 ft
 Reps: 6

Row Spacing: 30 inches
 Cercospora Sprays: 4
 Quadris: 6-8 leaf
 Grower: Stoutenburg

Michigan Sugar Company
 Small Plot Nematode Variety Trial
 Kawkawlin Location - 2006

No	Variety	RWSA	RWST	%Suc	%CJP	Tons/A	%Emerg
1	Beta BK1643N	7220	262.8	18.24	93.77	27.50	67.3
4	Beta 5534N	6501	250.0	17.48	93.54	26.11	59.9
5	HM E-17	6422	267.6	18.46	94.01	24.04	64.5
2	Crystal 963	6398	261.4	18.33	93.29	24.48	58.3
3	HM 2761Rz	6302	255.6	17.86	93.49	24.77	56.2
6	SX Prompt	6296	254.4	17.93	93.11	24.78	58.2
LSD (P=.05)		649	11.7	0.62	1.00	2.56	6.16
CV		7.5	3.41	2.61	0.81	7.65	7.69
Grand Mean		6523	258.6	18.05	93.53	25.28	60.7

Trial Quality: Good
 Plant: April 21
 Harvest: September 29
 Plot Size: 2 row X 35 ft
 Reps: 6

Row Spacing: 30 inches
 Cercospora Sprays: 3
 Quadris: 6-8 leaf
 Grower: Schwab

Michigan Sugar Company
 Small Plot Nematode Variety Trial
 Akron Location - 2006

No	Variety	RWSA	RWST	%Suc	%CJP	Tons/A	%Emerg	CLSrate
1	Beta BK1643N	10062	306.7	20.25	95.79	32.79	67.6	3.8
4	Beta 5534N	9439	274.8	18.74	94.49	34.38	54.0	4.0
2	Crystal 963	9010	305.4	20.17	95.79	29.47	62.0	2.3
6	SX Prompt	8495	296.7	19.73	95.52	28.65	61.5	2.3
5	HM E-17	8481	302.5	20.00	95.78	28.02	58.8	2.7
3	HM 2761Rz	8444	289.3	19.33	95.34	29.21	58.4	2.3
LSD (P=.05)		819.0	8.7	0.46	0.44	2.71	13.08	0.4
CV		7.7	2.5	2.0	0.4	7.5	18.2	10.8
Grand Mean		8988	295.9	19.70	95.45	30.42	60.4	2.9

Trial Quality: Good
 Plant: April 20
 Harvest: November 1
 Plot Size: 2 row X 35 ft
 Reps: 6

Row Spacing: 30 inches
 Cercospora Sprays: 4
 Quadris: 6-8 leaf
 Grower: Russell

Michigan Sugar Company
 Small Plot Nematode Variety Trial
 Albee Location - 2006

No	Variety	RWSA	RWST	%Suc	%CJP	Tons/A
1	Beta BK1643N	7920	216.9	15.24	93.86	36.51
2	Crystal 963	6755	214.5	15.36	92.97	31.47
6	SX Prompt	6610	216.4	15.54	92.79	30.54
5	HM E-17	6399	227.8	15.84	93.84	27.69
4	Beta 5534N	6314	198.8	14.56	92.02	32.71
3	HM 2761Rz	6196	208.1	14.94	92.94	29.82
LSD (P=.05)		664	10.2	0.56	0.88	2.86
CV		8.3	4.0	3.1	0.8	7.6
Grand Mean		6699	213.8	15.25	93.07	31.45

Trial Quality: Good
 Plant: April 27
 Harvest: October 29
 Plot Size: 2 row X 35 ft
 Reps: 6

Row Spacing: 30 inches
 Cercospora Sprays: 3
 Quadris: 6-8 leaf
 Grower: Spero

Michigan Sugar Company
 Small Plot Nematode Variety Trial
 Pigeon Location - 2006

Rhizomania Confirmed - Not Included in Average

No	Variety	RWSA	RWST	%Suc	%CJP	Tons/A	%Emerg	CLSrate
1	Beta BK1643N	9118	269.3	18.25	94.79	33.84	56.1	3.8
4	Beta 5534N	8350	251.7	17.47	93.89	33.18	49.9	4.4
2	Crystal 963	8251	260.2	17.76	94.64	31.71	56.6	2.0
3	HM 2761Rz	8102	273.4	18.66	94.41	29.66	53.5	2.3
6	SX Prompt	7549	258.0	17.94	93.73	29.21	53.6	2.2
5	HM E-17	7223	266.0	18.10	94.64	27.09	54.6	2.7
LSD (P=.05)		769	12.5	0.70	0.65	1.95	5.88	0.66
CV		7.9	3.95	3.22	0.58	5.28	9.15	19.17
Grand Mean		8098.9	263.1	18.03	94.35	30.78	54.0	2.9

Trial Quality: Good
 Plant: April 19
 Harvest: October 6
 Plot Size: 2 row X 35 ft
 Reps: 6

Row Spacing: 30 inches
 Cercospora Sprays: 4
 Quadris: 6-8 leaf

Michigan Sugar Company
 Plant To Stand Trials - 2006
 Average of 4 Locations in Michigan

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
13	Crystal 271	7766	265.9	17.93	95.08	28.84	66.0
1	Crystal 355	7660	264.3	17.87	94.99	28.99	61.0
11	Beta 5833R	7636	256.8	17.39	95.06	29.62	67.4
6	Beta 5310	7579	262.4	17.76	95.04	28.79	61.6
10	SX Prompt	7567	267.6	18.21	94.67	28.35	65.9
9	HM 2761Rz	7519	261.5	17.77	94.82	28.66	59.1
5	Crystal 963	7512	265.5	18.07	94.69	28.27	65.8
3	Beta 5451	7501	262.9	17.82	94.93	28.55	62.6
8	Crystal R442	7449	263.0	17.90	94.66	28.27	58.7
14	Beta 5411R	7412	256.3	17.49	94.67	28.77	54.8
15	HM 2767	7271	269.4	18.08	95.35	26.74	58.5
12	HM 73Rz	7236	263.1	17.81	94.93	27.00	55.9
2	HM 2763Rz	6921	256.8	17.29	95.38	26.83	60.3
7	HM 2771Rz	6849	263.2	17.69	95.34	25.83	55.4
4	HM 7172Rz	6830	247.5	17.17	93.91	27.73	60.7
LSD (P=.05)		494.7	7.90	0.45	0.54	1.77	6.3
CV		4.7	2.11	1.77	0.40	4.40	7.3
Grand Mean		7380.5	261.8	17.75	94.90	28.08	60.9

Trial Locations: Akron, Albee, Sandusky and Kawkawlin

Trial Quality: One trial ranked very good, 1 good, 2 fair to good and 1 fair (adequate)

Plot Size: 4 rows X 35 ft and 6 reps

Row Spacing: 30 Inches

Trials were planted and harvested at normal times

Seed Spacing: 4.5 Inches

Michigan Sugar Company
 Plant To Stand Trials - 2006
 Stoutenburg Farm, Sandusky, MI

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
13	Crystal 271	9259	290.9	19.56	94.77	31.45	69.3
9	HM 2761Rz	9247	283.0	19.00	95.18	32.66	66.7
15	HM 2767	9236	287.2	19.27	95.17	32.06	60.8
5	Crystal 963	9168	286.3	19.23	95.12	32.07	69.9
6	Beta 5310	9121	278.1	18.76	94.98	32.75	60.5
8	Crystal R442	9116	281.7	19.12	94.63	32.38	59.5
11	Beta 5833R	9051	276.9	18.62	95.16	32.72	72.4
14	Beta 5411R	9031	279.9	18.93	94.85	32.28	59.7
10	SX Prompt	9028	283.3	19.21	94.66	31.85	63.6
1	Crystal 355	8962	288.0	19.18	95.53	31.12	70.3
3	Beta 5451	8613	280.2	18.92	94.90	30.78	60.4
2	HM 2763Rz	8607	275.9	18.41	95.57	31.21	64.8
12	HM 73Rz	8547	277.5	18.82	94.73	30.69	58.7
4	HM 7172Rz	8404	262.5	17.95	94.43	32.61	66.2
7	HM 2771Rz	7951	277.3	18.65	95.17	28.90	63.4
LSD (P=.05)		609.8	10.89	0.59	0.65	1.76	8.9
CV		5.9	3.36	2.72	0.60	4.81	11.9
Grand Mean		8889.5	280.6	18.91	94.99	31.70	64.4

Trial Quality: V. Good
 Plant: April 27
 Harvest: October 16
 Plot Size: 4 Rows X 35 ft
 Problems: Minimal

Reps: 6
 Row Spacing: 30 Inches
 Quadris: 6-8 Leaf Stage
 Cercospora Applications: 4
 Seed Spacing: 4.5 Inches

Michigan Sugar Company

Plant To Stand Trials - 2006

D. Russell Farm, Akron, MI

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
9	HM 2761Rz	8543	285.2	19.24	94.93	30.22	43.0
1	Crystal 355	8405	291.4	19.53	95.16	28.90	43.5
13	Crystal 271	8306	288.8	19.38	95.11	28.07	54.0
12	HM 73Rz	8290	287.3	19.29	95.13	27.97	42.5
11	Beta 5833R	8170	275.7	18.47	95.39	29.61	52.2
5	Crystal 963	8057	287.0	19.36	94.91	28.18	48.3
15	HM 2767	7914	295.3	19.38	96.25	26.81	53.9
8	Crystal R442	7788	294.7	19.56	95.66	26.26	45.0
10	SX Prompt	7746	286.0	19.41	94.58	27.39	50.8
3	Beta 5451	7639	287.2	19.15	95.47	26.80	56.9
6	Beta 5310	7591	282.6	19.02	95.07	26.64	53.3
7	HM 2771Rz	7581	293.4	19.33	96.10	25.88	42.4
14	Beta 5411R	7552	267.8	18.25	94.59	28.09	41.1
4	HM 7172Rz	7515	270.7	18.69	93.92	28.25	53.4
2	HM 2763Rz	7334	278.8	18.60	95.67	26.45	45.8
LSD (P=.05)		798.3	14.9	0.70	1.19	2.32	10.3
CV		8.8	4.5	3.19	1.08	7.25	18.5
Grand Mean		7895.4	284.8	19.11	95.20	27.70	48.4

Trial Quality: Good
 Plant: April 20
 Harvest: November 2
 Plot Size: 4 Rows X 35 ft
 Problems: Minimal

Reps: 6
 Row Spacing: 30 Inches
 Quadris: 6-8 Leaf Stage
 Cercospora Applications: 4
 Seed Spacing: 4.5 Inches

Michigan Sugar Company

Plant To Stand Trials - 2006

Schwab Farm, Kawkawlin, MI

No	Variety	RWSA	RWST	%	%	Tons/	% Emerg	
				Suc	CJP	Acre	13 Day	20 Day
11	Beta 5833R	7310	254.0	17.34	94.68	28.88	14.8	69.9
3	Beta 5451	7122	255.1	17.56	94.27	27.75	10.6	63.4
13	Crystal 271	7017	254.6	17.18	95.23	27.52	17.4	65.1
10	SX Prompt	6951	267.8	18.16	94.86	25.95	18.4	73.4
6	Beta 5310	6896	256.9	17.54	94.73	26.90	12.0	60.1
1	Crystal 355	6875	255.8	17.33	95.09	26.84	14.3	63.4
8	Crystal R442	6414	254.8	17.42	94.59	25.07	19.5	65.3
9	HM 2761Rz	6368	261.1	17.73	94.88	24.46	3.9	60.0
12	HM 73Rz	6304	267.1	18.09	94.61	22.82	3.3	54.0
5	Crystal 963	6169	261.6	18.08	93.92	23.64	12.5	70.6
14	Beta 5411R	6143	245.2	16.79	94.67	25.06	12.8	58.9
4	HM 7172Rz	6116	251.9	17.48	93.87	24.37	3.4	58.1
15	HM 2767	6051	261.5	17.78	94.80	23.13	5.5	57.9
2	HM 2763Rz	6021	251.5	16.97	95.33	23.97	9.7	58.6
7	HM 2771Rz	5858	254.8	17.29	94.98	22.98	5.6	45.5
LSD (P=.05)		738.8	14.3	0.75	1.06	2.62	7.00	11.0
CV		9.8	4.82	3.69	0.97	8.98	56.10	15.7
Grand Mean		6507.7	256.9	17.52	94.70	25.29	10.90	60.7

Trial Quality: Fair to Good

Plant: April 21

Harvest: September 27

Plot Size: 4 Rows X 35 ft

Problems: Some Rhizoc and stand problems

Reps: 6

Row Spacing: 30 Inches

Quadris: 6-8 Leaf Stage

Cercospora Applications: 3

Seed Spacing: 4.5 Inches

Michigan Sugar Company

Plant To Stand Trials - 2006

Spero Farm, Albee, MI

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
14	Beta 5411R	6920	232.2	15.99	94.57	29.65	59.6
6	Beta 5310	6710	232.1	15.72	95.40	28.87	72.5
5	Crystal 963	6652	227.3	15.60	94.81	29.19	74.4
3	Beta 5451	6630	229.1	15.65	95.06	28.87	69.6
10	SX Prompt	6543	233.5	16.06	94.59	28.20	75.8
13	Crystal 271	6484	229.5	15.62	95.22	28.31	75.4
8	Crystal R442	6477	220.8	15.51	93.78	29.36	65.1
1	Crystal 355	6397	221.8	15.44	94.18	29.09	67.0
11	Beta 5833R	6014	220.5	15.11	95.01	27.27	75.0
7	HM 2771Rz	6006	227.3	15.50	95.11	25.54	70.3
9	HM 2761Rz	5917	216.7	15.09	94.29	27.31	66.8
15	HM 2767	5883	233.8	15.89	95.18	24.97	61.4
12	HM 73Rz	5805	220.5	15.04	95.23	26.51	68.5
2	HM 2763Rz	5721	221.1	15.18	94.95	25.69	72.1
4	HM 7172Rz	5286	204.9	14.56	93.44	25.68	65.2
LSD (P=.05)		849.0	16.0	0.80	1.06	2.87	8.3
CV		11.8	6.17	4.48	0.97	8.99	10.4
Grand Mean		6229.5	224.7	15.46	94.72	27.63	69.3

Trial Quality: Fair
 Plant: April 27
 Harvest: October 29
 Plot Size: 4 Rows X 35 ft
 Problems: Rhizoc, gaps

Reps: 6
 Row Spacing: 30 Inches
 Quadris: 6-8 Leaf Stage
 Cercospora Applications: 3
 Seed Spacing: 4.5 Inches

Michigan Sugar Company

Plant To Stand Trials - 2006

Pigeon, MI

Moderate Rhizomania Confirmed - Not Included in Average

No	Variety	RWSA	RWST	% Suc	% CJP	Tons/ Acre	% Emerg
11	Beta 5833R	9252	277.0	18.37	95.94	33.39	68.7
12	HM 73Rz	8825	283.0	19.19	94.71	31.20	60.5
15	HM 2767	8728	282.4	18.70	95.92	30.91	69.4
2	HM 2763Rz	8631	271.8	18.35	95.01	31.74	71.7
14	Beta 5411R	8522	273.2	18.09	96.05	31.20	61.4
7	HM 2771Rz	8412	277.5	18.50	95.62	30.35	64.0
9	HM 2761Rz	8342	270.9	18.85	93.49	30.80	69.2
6	Beta 5310	8258	262.1	17.65	95.31	31.47	56.8
3	Beta 5451	8250	269.8	17.94	95.85	30.52	70.6
13	Crystal 271	8215	257.2	17.62	94.51	31.98	66.4
4	HM 7172Rz	8139	263.1	18.04	94.35	30.92	66.8
8	Crystal R442	8071	264.5	18.06	94.50	30.51	58.9
10	SX Prompt	7388	251.9	17.47	93.93	29.38	65.2
1	Crystal 355	7365	255.5	17.22	95.34	28.76	65.9
5	Crystal 963	7149	254.6	17.09	95.58	27.88	64.5
LSD (P=.05)		998.8	23.1	1.29	1.67	2.67	14.1
CV		8.5	6.03	5.00	1.23	6.08	15.1
Grand Mean		8236.4	267.6	18.07	95.07	30.74	65.3

Trial Quality: Fair to Good
 Plant: April 19
 Harvest: October 6
 Plot Size: 4 Rows X 35 ft
 Problems: Rhizoc, Rhizomania

Reps: 6
 Row Spacing: 30 Inches
 Quadris: 6-8 Leaf Stage
 Cercospora Applications: 4
 Seed Spacing: 4.5 Inches

Michigan Sugar Company
Cercospora Variety Trials - 2006
Average of 3 Locations

No.	Variety	Avg 3 Locations		Gilford	Blumfield	BB Farm
		% Check	0-9	0-9	0-9	0-9
24	Crystal 355	57.8	1.92	1.71	2.05	2.00
6	Beta 5310	71.7	2.38	2.19	2.24	2.71
10	Beta 1642R	85.7	2.85	2.70	2.73	3.11
4	Beta 5411R	87.8	2.92	2.82	2.94	2.99
13	Crystal R442	88.2	2.93	3.11	2.86	2.82
21	Beta 5451	88.9	2.95	2.94	2.93	2.99
38	HM 2767	90.8	3.02	3.18	2.94	2.93
17	Beta 5930R(1531R)	91.5	3.04	3.12	2.74	3.25
15	Crystal 963 Check	95.4	3.17	3.37	3.11	3.03
41	HM 2771Rz	97.3	3.23	3.06	3.58	3.06
9	SX Prompt Check	98.6	3.27	3.15	3.16	3.51
11	HM 7172Rz	99.3	3.30	2.79	3.56	3.54
2	Crystal 271	100.7	3.34	3.31	3.51	3.21
25	HM 2781Rz	102.1	3.39	3.09	3.58	3.50
34	HM 74Rz	103.3	3.43	3.09	3.53	3.68
30	HM 2784Rz	103.9	3.45	3.57	3.53	3.26
36	HM 2779Rz	105.1	3.49	3.46	3.59	3.42
33	HM E-17	105.2	3.49	3.60	3.57	3.31
19	HM 2761Rz Check	106.0	3.52	3.29	3.43	3.84
26	Crystal R509(Z589)	107.7	3.58	3.52	3.78	3.43
39	HM 9027RR	108.3	3.60	3.43	3.88	3.48
18	SX 1233	110.0	3.65	3.31	4.11	3.53
7	HM 2763Rz	110.3	3.66	3.80	3.87	3.31
35	HM 9028RR	111.6	3.71	3.86	3.39	3.86
12	Beta BK1641R	111.8	3.71	3.73	3.79	3.62
20	Crystal R626	113.1	3.76	3.82	3.67	3.78
5	Crystal Z588R	113.3	3.76	3.49	3.64	4.15
42	HM 9029RR	114.1	3.79	3.69	3.94	3.74
40	HM 2780Rz	114.7	3.81	3.56	4.17	3.70
3	HM 73Rz	114.9	3.82	3.78	3.99	3.68
32	Beta 5833R	117.2	3.89	3.35	4.03	4.30
14	HM 2782	117.3	3.90	3.77	4.16	3.76
29	HM 9013RR	118.1	3.92	3.83	3.85	4.09
1	Crystal Z627	130.9	4.35	3.76	5.14	4.14
16	Beta 6905RR	134.3	4.46	4.23	4.60	4.55
22	Crystal C9641RR	142.7	4.74	4.78	4.82	4.62
37	Beta 6904RR	144.8	4.81	4.87	4.49	5.07
31	HM 7235Rz	152.6	5.07	5.33	5.41	4.46
28	Beta BK 1643N	158.1	5.25	5.34	5.13	5.28
27	Crystal C9642RR	161.5	5.37	5.02	5.29	5.78
23	Beta 5534N	163.8	5.44	5.69	5.44	5.18
8	Beta 5902RR	166.2	5.52	5.32	5.67	5.57
LSD (P=.05)		13.0	0.43	0.37	0.69	0.51
CV		7.1	7.1	8.1	12.9	9.6
Grand Mean		112.3	3.73	3.64	3.81	3.74

Lower number indicates more resistance.

Michigan Sugar Company
Cercospora Variety Trial
Gilford, MI - 2006

No	Variety	Avg 8 0-9	29-Aug 0-9	30-Aug 0-9	7-Sep 0-9	8-Sep 0-9	8-Sep 0-9	15-Sep 0-9	15-Sep 0-9	17-Sep 0-9
24	Crystal 355	1.71	1.66	1.66	1.62	1.60	1.90	1.56	1.90	1.80
6	Beta 5310	2.19	2.66	2.14	1.84	1.70	2.58	2.12	2.00	2.44
10	Beta 1642R	2.70	2.72	2.30	2.42	2.20	3.00	2.84	2.70	3.38
11	HM 7172Rz	2.79	2.92	2.76	2.64	2.10	3.18	2.94	2.50	3.30
4	Beta 5411R	2.82	2.76	2.68	2.66	2.20	3.08	2.80	2.70	3.70
21	Beta 5451	2.94	3.30	3.00	2.60	2.60	3.30	2.90	2.50	3.34
41	HM 2771Rz	3.06	3.14	3.00	2.76	2.40	3.34	3.14	2.80	3.86
25	HM 2781Rz	3.09	2.92	3.06	2.90	2.40	3.50	3.26	2.80	3.86
34	HM 74Rz	3.09	3.06	2.80	2.92	2.40	3.50	3.28	2.80	3.96
13	Crystal R442	3.11	3.00	2.80	2.86	2.40	3.56	3.04	2.90	4.32
17	Beta 5930R(1531R)	3.12	3.08	3.00	2.84	2.70	3.36	3.30	3.00	3.66
9	SX Prompt*	3.15	3.08	3.12	2.96	2.40	3.44	3.42	3.20	3.60
38	HM 2767	3.18	3.00	3.06	3.00	2.50	3.70	3.20	3.00	3.98
19	HM 2761Rz*	3.29	3.28	3.04	3.00	2.50	3.62	3.58	3.10	4.20
18	SX 1233	3.31	3.24	3.00	3.05	2.80	3.92	3.52	3.20	3.85
2	Crystal 271	3.31	3.44	3.30	3.06	2.60	3.68	3.40	3.00	4.00
32	Beta 5833R	3.35	3.14	3.02	3.06	2.70	3.70	3.56	3.30	4.30
15	Crystal 963*	3.37	3.22	3.16	3.00	2.90	3.76	3.58	3.30	4.02
39	HM 9027RR	3.43	3.34	3.00	3.10	2.80	4.00	3.50	3.40	4.26
36	HM 2779Rz	3.46	3.44	3.24	3.18	2.90	4.10	3.50	3.20	4.14
5	Crystal Z588R	3.49	3.26	3.20	3.18	2.80	3.92	3.76	3.10	4.68
26	Crystal R509(Z589)	3.52	3.32	3.12	3.16	2.80	4.22	3.66	3.40	4.46
40	HM 2780Rz	3.56	3.62	3.28	3.24	2.80	3.94	3.60	3.30	4.68
30	HM 2784Rz	3.57	3.60	3.16	3.18	2.90	4.14	3.70	3.40	4.50
33	HM E-17	3.60	3.66	3.30	3.26	3.00	3.88	3.66	3.60	4.46
42	HM 9029RR	3.69	3.44	3.32	3.32	2.90	4.02	4.14	3.90	4.50
12	Beta BK1641R	3.73	3.70	3.42	3.40	3.10	4.36	3.84	3.60	4.40
1	Crystal Z627	3.76	3.52	3.14	3.16	2.90	4.02	3.80	4.20	5.30
14	HM 2782	3.77	3.62	3.46	3.44	3.00	4.46	3.84	3.60	4.76
3	HM 73Rz	3.78	3.80	3.50	3.46	2.90	4.18	3.98	3.80	4.62
7	HM 2763Rz	3.80	3.66	3.30	3.40	3.00	4.32	4.30	3.80	4.58
20	Crystal R626	3.82	3.50	3.56	3.26	3.00	4.20	4.36	3.80	4.86
29	HM 9013RR	3.83	3.48	3.40	3.32	3.00	4.12	4.44	4.00	4.90
35	HM 9028RR	3.86	3.38	3.26	3.34	3.00	4.42	4.50	4.10	4.90
16	Beta 6905RR	4.23	3.98	3.80	3.62	3.10	4.40	5.40	4.20	5.30
22	Crystal C9641RR	4.78	3.82	3.96	4.32	3.40	4.60	6.70	4.80	6.60
37	Beta 6904RR	4.87	4.00	3.86	4.16	3.50	4.88	6.74	4.80	7.00
27	Crystal C9642RR	5.02	4.48	4.18	4.60	3.90	5.66	5.80	5.10	6.40
8	Beta 5902RR	5.32	4.60	4.30	4.86	4.10	6.10	6.60	5.70	6.30
31	HM 7235Rz	5.33	4.34	3.82	4.48	3.70	5.50	7.50	5.60	7.70
28	Beta BK 1643N	5.34	4.70	4.60	4.76	3.80	5.38	7.26	4.80	7.40
23	Beta 5534N	5.69	5.00	4.76	5.76	3.90	5.92	7.50	5.50	7.20
LSD (P=.05)		0.37	0.44	0.42	0.50	0.34	0.54	0.70	0.53	0.61
CV		8.09	10.2	10.28	12.06	9.68	10.82	13.66	11.93	10.62
Grand Mean		3.64	3.45	3.26	3.29	2.84	4.02	4.08	3.56	4.61

*Check Varieties: SX Prompt, Crystal 963 and HM 2761Rz
Lower number indicates more resistance.

Trial Quality: Very Good

Michigan Sugar Company
Cercospora Variety Trial
Blumfield, MI - 2006

No	Variety	Avg 9 0-9	16-Aug 0-9	18-Aug 0-9	18-Aug 0-9	21-Aug 0-9	25-Aug 0-9	25-Aug 0-9	27-Aug 0-9	30-Aug 0-9	30-Aug 0-9
24	Crystal 355	2.05	0.95	1.13	2.23	1.40	2.00	2.73	2.50	3.00	2.50
6	Beta 5310	2.24	1.18	1.50	2.58	1.63	1.75	2.70	3.38	3.10	2.38
10	Beta 1642R	2.73	1.88	1.88	2.88	2.70	2.25	3.18	3.58	3.35	2.88
17	Beta 5930R(1531R)	2.74	1.93	2.00	2.85	2.38	2.38	3.18	3.73	3.38	2.88
13	Crystal R442	2.86	2.00	2.00	3.00	2.55	2.50	3.43	3.95	3.58	2.75
21	Beta 5451	2.93	1.93	1.88	2.85	2.80	2.50	3.63	4.00	3.88	2.88
38	HM 2767	2.94	2.10	2.13	3.00	2.80	2.63	3.40	3.80	3.58	3.00
4	Beta 5411R	2.94	2.25	1.88	2.98	2.48	2.63	3.45	4.10	3.80	2.88
15	Crystal 963*	3.11	2.13	2.13	3.30	2.93	2.75	3.75	4.00	3.85	3.13
9	SX Prompt*	3.16	2.73	2.13	2.93	3.05	2.75	3.60	4.18	3.98	3.13
35	HM 9028RR	3.39	2.88	2.38	3.50	3.05	2.88	3.93	4.38	4.18	3.38
19	HM 2761Rz*	3.43	2.55	2.50	3.30	3.43	2.88	4.18	4.50	4.18	3.38
2	Crystal 271	3.51	2.70	2.50	3.50	3.28	3.00	4.18	4.38	4.45	3.63
30	HM 2784Rz	3.53	2.45	2.25	3.28	3.30	3.13	4.20	4.75	4.75	3.63
34	HM 74Rz	3.53	2.95	2.50	3.38	3.33	3.00	4.10	4.73	4.43	3.38
11	HM 7172Rz	3.56	2.95	2.38	3.90	3.20	3.13	4.03	4.80	4.05	3.63
33	HM E-17	3.57	2.58	2.50	3.58	3.33	3.13	4.18	4.85	4.40	3.63
41	HM 2771Rz	3.58	2.65	2.50	3.33	3.83	3.13	4.38	4.58	4.43	3.38
25	HM 2781Rz	3.58	2.93	2.38	3.83	3.28	3.13	4.28	4.38	4.50	3.50
36	HM 2779Rz	3.59	2.93	2.38	3.50	3.18	3.25	4.20	4.78	4.38	3.75
5	Crystal Z588R	3.64	2.80	2.50	3.50	3.40	3.00	4.15	4.90	4.80	3.75
20	Crystal R626	3.67	2.88	2.50	3.38	3.58	3.00	4.38	4.73	4.98	3.63
26	Crystal R509(Z589)	3.78	2.90	2.88	3.30	3.65	3.13	4.30	4.70	5.33	3.88
12	Beta BK1641R	3.79	2.88	2.50	4.00	3.43	3.13	4.45	5.00	4.85	3.88
29	HM 9013RR	3.85	2.98	2.63	3.88	3.65	3.25	4.63	4.80	5.13	3.75
7	HM 2763Rz	3.87	3.18	2.75	4.05	3.83	3.00	4.53	4.98	4.80	3.75
39	HM 9027RR	3.88	3.05	2.75	3.58	3.38	3.63	4.63	5.13	4.90	3.88
42	HM 9029RR	3.94	3.08	2.63	3.63	3.68	3.63	4.70	5.23	4.93	4.00
3	HM 73Rz	3.99	3.18	3.00	4.45	3.83	3.25	4.63	5.10	4.63	3.88
32	Beta 5833R	4.03	3.00	2.75	4.00	3.75	3.50	4.68	5.25	5.33	4.00
18	SX 1233	4.11	3.43	3.00	4.13	4.18	3.63	4.93	5.20	4.68	3.88
14	HM 2782	4.16	3.18	2.88	4.13	4.18	3.50	4.95	5.38	5.38	3.88
40	HM 2780Rz	4.17	3.10	2.75	4.08	4.25	3.75	5.03	5.43	5.13	4.00
37	Beta 6904RR	4.49	3.35	3.00	4.95	4.45	3.88	5.43	5.35	5.88	4.13
16	Beta 6905RR	4.60	3.48	3.00	4.55	4.30	4.00	5.63	5.80	6.43	4.25
22	Crystal C9641RR	4.82	4.00	3.25	5.08	4.93	4.00	5.83	6.08	6.00	4.25
28	Beta BK 1643N	5.13	4.08	3.25	5.13	5.58	4.25	5.98	6.60	6.83	4.50
1	Crystal Z627	5.14	3.53	3.38	5.00	5.18	4.50	6.13	6.20	7.25	5.13
27	Crystal C9642RR	5.29	4.25	3.50	5.38	5.50	4.13	6.70	6.90	6.68	4.63
31	HM 7235Rz	5.41	4.05	3.63	5.25	5.43	4.63	6.63	6.75	7.08	5.25
23	Beta 5534N	5.44	4.30	3.50	5.50	6.00	4.25	6.58	6.80	7.30	4.75
8	Beta 5902RR	5.67	4.30	3.38	5.38	6.00	4.63	7.08	7.13	7.88	5.25
LSD (P=.05)		0.69	0.76	0.53	0.83	1.05	0.58	1.00	0.91	0.95	0.57
CV		13.0	18.8	14.7	15.5	20.4	12.8	15.7	13.2	13.9	11.0
Grand Mean		3.81	2.9	2.6	3.8	3.7	3.3	4.5	4.9	4.9	3.7

*Check Varieties: SX Prompt, Crystal 963 and HM 2761Rz
Lower number indicates more resistance.

Trial Quality: Medium
Missing 1 rep

Michigan Sugar Company
Cercospora Variety Trial
BB Farm - 2006

No	Variety	Avg 8 0-9	17-Aug 0-9	19-Aug 0-9	22-Aug 0-9	24-Aug 0-9	29-Aug 0-9	30-Aug 0-9	1-Sep 0-9	7-Sep 0-9
24	Crystal 355	2.00	1.13	1.90	1.50	1.80	2.33	2.13	2.53	2.68
6	Beta 5310	2.71	1.88	2.73	2.30	2.78	2.95	2.38	3.63	3.08
13	Crystal R442	2.82	1.63	2.58	2.80	2.88	3.03	2.50	3.98	3.18
38	HM 2767	2.93	2.00	2.73	2.75	3.05	3.05	2.50	4.13	3.23
21	Beta 5451	2.99	2.00	2.90	2.93	3.00	3.18	2.63	3.93	3.40
4	Beta 5411R	2.99	1.75	2.68	2.83	3.28	3.18	2.88	3.93	3.45
15	Crystal 963*	3.03	2.00	2.98	3.00	3.25	3.13	2.75	3.88	3.25
41	HM 2771Rz	3.06	2.00	2.93	3.05	3.28	3.05	2.75	4.13	3.30
10	Beta 1642R	3.11	2.00	2.75	3.00	3.50	3.23	2.88	3.93	3.60
2	Crystal 271	3.21	2.00	3.13	3.05	3.13	3.33	2.75	4.50	3.80
17	Beta 5930R(1531R)	3.25	2.33	2.93	3.03	3.40	3.43	3.00	4.20	3.67
30	HM 2784Rz	3.26	2.13	2.90	3.13	3.30	3.38	2.88	4.45	3.93
33	HM E-17	3.31	2.25	3.43	3.10	3.80	3.20	2.88	4.38	3.45
7	HM 2763Rz	3.31	2.17	3.17	3.33	3.60	3.23	3.00	4.40	3.60
36	HM 2779Rz	3.42	2.13	3.20	3.13	3.70	3.43	3.00	4.70	4.10
26	Crystal R509(Z589)	3.43	2.25	2.88	3.05	3.60	3.55	3.00	4.85	4.25
39	HM 9027RR	3.48	2.38	3.27	3.13	3.67	3.40	3.00	4.70	4.17
25	HM 2781Rz	3.50	2.38	3.15	3.28	3.48	3.58	3.00	4.88	4.30
9	SX Prompt*	3.51	2.38	3.18	3.25	3.63	3.35	3.25	4.95	4.10
18	SX 1233	3.53	2.50	3.33	3.33	4.05	3.38	3.13	4.73	3.85
11	HM 7172Rz	3.54	2.50	3.15	3.20	3.80	3.55	3.13	4.93	4.05
12	Beta BK1641R	3.62	2.50	3.20	3.35	3.70	3.68	3.25	4.88	4.40
34	HM 74Rz	3.68	2.63	3.40	3.33	3.88	3.70	3.25	4.98	4.25
3	HM 73Rz	3.68	2.38	3.63	3.43	4.00	3.68	3.25	4.73	3.93
40	HM 2780Rz	3.70	2.38	3.20	3.35	4.05	3.55	3.38	4.85	4.27
42	HM 9029RR	3.74	2.88	3.48	3.58	3.83	3.78	3.50	4.50	4.38
14	HM 2782	3.76	2.63	3.43	3.75	4.25	3.75	3.38	4.68	4.25
20	Crystal R626	3.78	2.25	3.38	3.40	4.10	3.75	3.38	5.08	4.88
19	HM 2761Rz*	3.84	2.63	3.88	3.58	4.13	4.00	3.13	5.00	4.43
35	HM 9028RR	3.86	2.50	3.53	3.43	4.20	3.75	3.50	5.13	4.88
29	HM 9013RR	4.09	2.63	3.78	3.73	4.38	4.08	3.50	5.13	5.50
1	Crystal Z627	4.14	2.25	3.00	3.60	3.93	4.50	3.75	5.50	6.58
5	Crystal Z588R	4.15	2.88	3.48	3.55	4.13	4.23	3.50	5.63	5.83
32	Beta 5833R	4.30	3.00	3.95	3.70	4.25	4.38	3.75	5.75	5.63
31	HM 7235Rz	4.46	2.63	3.83	3.65	4.13	4.73	4.13	6.13	6.50
16	Beta 6905RR	4.55	3.13	4.08	4.05	4.70	4.70	3.75	5.63	6.38
22	Crystal C9641RR	4.62	2.88	3.95	4.38	4.50	5.08	4.00	5.63	6.55
37	Beta 6904RR	5.07	3.33	4.33	4.33	5.00	5.87	4.00	6.50	7.17
23	Beta 5534N	5.18	3.13	4.38	4.60	5.05	6.20	4.25	6.38	7.50
28	Beta BK 1643N	5.28	3.50	4.63	5.00	5.30	5.95	4.50	6.33	7.08
8	Beta 5902RR	5.57	3.25	4.53	4.55	5.50	6.18	5.38	7.25	7.95
27	Crystal C9642RR	5.78	3.50	4.88	5.40	5.75	6.48	4.75	7.38	8.13
LSD (P=.05)		0.51	0.49	0.61	0.46	0.69	0.65	0.52	0.70	0.81
CV		9.6	14.2	12.9	9.5	12.8	11.9	11.2	10.1	12.3
Grand Mean		3.74	2.44	3.37	3.43	3.87	3.9	3.3	4.92	4.69

*Check Varieties: SX Prompt, Crystal 963 and HM 2761Rz
Lower number indicates more resistance.

Trial Quality: Medium
Missing 1 rep

RHIZOCTONIA NURSERY RESULTS

2006

Summary of Michigan Coded Entries in the USDA Rhizoctonia Nursery -
Ft. Collins, CO (1997 - 2006)

Years Tested	Variety	*% E-17 Check	**Rating
1	HM 9027RR	55.8	Excellent
9	Highly Resistant Check	56.0	Excellent
9	Resistant Check	59.0	Excellent
1	HM 7235Rz	60.5	Excellent
1	HM 9028RR	67.4	Excellent
1	HM 2779Rz	72.1	Good
8	Beta 5736	74.0	Good
4	HM 7172Rz	75.6	Good
1	Beta B6904RR	76.7	Good
2	Crystal R509(Z589)	77.9	Good
1	HM 2784Rz	79.1	Good
1	Crystal Z627	81.4	Fair
7	SX Prompt	82.9	Fair
4	Crystal 355	83.6	Fair
4	Crystal 963	83.8	Fair
3	Beta 5833R(1383R)	84.8	Fair
1	HM 9029RR	86.0	Fair
3	Beta 5451	87.2	Fair
2	Beta 5902RR	89.7	Fair
9	Suseptible Check	92.0	Poor
1	Beta 5930R(1531R)	93.0	Poor
1	HM 2780Rz	95.3	Poor
2	HM 74Rz(2774Rz)	96.5	Poor
2	HM 2763 Rz	98.3	Poor
10	HM E-17	100.0	Poor
3	Beta 5310	100.9	Poor
2	Crystal R442(R451)	102.4	Poor
2	Crystal 271	104.3	Poor
1	Beta 5411R(1411R)	104.8	Poor
3	HM 2761Rz	105.0	Poor
2	Crystal Z588	111.8	Poor
2	HM 2771Rz	116.7	Poor
2	HM 73Rz(2773Rz)	117.7	Poor
1	HM 2767	133.3	Poor

*Hilleshog E17 rating was 1997=6.7; 1998=5.7; 1999=6.4; 2000=4.9
2001=5.3, 2002=5.7, 2003=5.7, 2004=4.9, 2005=4.2 and 2006=4.3.

** Ratings: STD HM E17 check; Excellent <71; Good 71 to 80;
Fair 81 to 90; Poor >90

Michigan Sugar Company

Rhizoctonia Nursery - Gilford, MI - 2006

No	Variety	At Harvest		Pre Harvest	
		0-7 Scale	%E17	Dead Beets/30 ft	%E17
3	Crystal Z589	2.45	48.5	1.5	6.3
5	HM 2784Rz	2.65	52.5	4.5	18.8
7	HM 7265Rz	2.73	54.0	5.5	22.9
15	Crystal 355	2.84	56.2	8.0	33.3
4	HM 7172Rz	3.07	60.8	7.3	30.2
8	HM 9027RR	3.15	62.4	8.8	36.5
1	Beta 5902RR	3.23	63.9	6.3	26.0
12	Beta B6904RR	3.24	64.1	8.0	33.3
14	Beta 5833R	3.27	64.8	6.5	27.1
6	Crystal Z627	3.98	78.7	13.8	57.3
9	Crystal Z588	4.28	84.7	19.3	80.2
18	HM 2771Rz	4.34	85.9	16.3	67.7
16	Beta BK1531	4.68	92.6	17.8	74.0
10	HM 2779Rz	4.83	95.5	20.0	83.3
11	HM E-17	5.05	100.0	24.0	100.0
2	HM 9028RR	5.23	103.5	20.0	83.3
13	HM 9029RR	5.25	104.0	23.5	97.9
20	HM 74Rz	5.48	108.4	26.0	108.3
19	HM 73Rz	5.54	109.7	24.8	103.1
21	HM 2780Rz	5.63	111.4	27.0	112.5
17	Crystal R442	5.75	113.9	25.3	105.2
LSD (P=.05)		1.29	25.6	8.5	35.5
CV		22.2	22.2	37.5	37.5
Grand Mean		4.1	81.7	16.1	67.1

¹Root Rot Rating (Rhizoctonia) Sep 7, 2006:

- 0 = No disease
- 1 = Superficial, very minor
- 2 = Shallow lesion (2-5% rot)
- 3 = Deep dry rot in side or crown (5-25% of area)
- 4 = Up to 50% rot
- 5 = Up to 75% rot
- 6 = Rotted root with a few green leaves
- 7 = Completely rotted or missing beet

Entire plot (2 rows X 15 ft) evaluated

²Canopy Rating Aug 29, 2006

Dead or dying beets per 30 ft of row counted before harvest

Rhizoctonia Disease Nursery
 Dr. Ron Pitblado, Ontario Canada
 Sorted by Disease Rating
 2006

		Disease Rating ¹	# Sugarbeets Harvested	# Dead Sugarbeets	Yield Kg/Plot
5	Crystal 442R	21	26.8	12	39.6
8	Beta 5833R	23	32.8	7	42.8
10	Crystal 355	35	24.3	9	38.7
2	HM 7172Rz	37	23.8	9	35.1
1	Beta 4381R	41	24.8	12	34.8
12	HM E17	42	22.6	17	33.0
4	HM 73Rz	46	27.1	15	36.9
9	Beta 5451	48	22.0	16	37.9
6	Crystal 271	56	20.9	16	31.7
7	Crystal 963	56	24.1	14	32.0
3	HM 2771Rz	67	22.6	10	32.3
11	HM 2761Rz	76	21.1	17	30.5

ANOVA 5%

ns

s

s

CV %

29.4

13.9

¹ Rot rating: lower number means more resistance

ROOT APHID NURSERY
2004

Summary of Michigan Coded Entries
at Betaseed, Shakopee, MN
1996-97-98-99-00-01-02-03-04

Years Tested	VARIETY	*% of HM E-17	** Ratings
	Resistant Check	50.9	Excellent
2	Beta 5833R(1383R)	63.3	Excellent
6	Beta 5451	79.5	Excellent
7	SX Prompt	84.4	Excellent
2	HM 2763Rz	85.4	Excellent
6	Crystal 963	89.9	Excellent
6	Beta 5736	93.7	Good
4	Beta 5310	94.1	Good
1	HM 74Rz(2774Rz)	95.7	Good
1	HM 73Rz(2773Rz)	98.4	Good
1	Crystal R442(R451)	99.7	Good
9	HM E17	100.0	Good
4	HM 2761Rz	106.6	Fair
3	Crystal 271	109.3	Fair
1	Beta 5411R(1411R)	111.6	Fair
2	HM 2771 Rz	116.9	Fair
2	HM 7172RZ	120.4	Fair
3	HM 2767	124.5	Poor
2	Crystal 355	133.8	Poor
	Susceptable Check	138.2	Poor

* STD HM E17 check is the average of 1996=3.0; 1997=2.7;
1998=2.2; 1999=2.9; 2000=3.0; 2001=3.1
2002=1.9, 2003=2.36, 2004=3.26

** Ratings: STD HM E17 check; Excellent <90; Good 90 to 105;
Fair 106 to 121; Poor >121

APHANOMYCES NURSERY RESULTS

2006

Summary of Michigan Coded Entries in the Betaseed Aphanomyces
Nursery - Shakopee, MN (1998,99,00,01,03,04,06)

Years Tested	VARIETY	*% of HM E-17	**Ratings
1	HM 74RZ	77.5	Excellent
2	Crystal 271	80.8	Excellent
1	HM 2781RZ	81.4	Excellent
	Resistant Check	81.4	Excellent
1	Crystal R442	83.7	Excellent
4	Crystal 963	84.9	Excellent
1	Crystal 355	86.4	Excellent
4	Beta 5451	86.5	Excellent
1	Beta 5411R(1411R)	87.6	Excellent
3	Beta 5310	87.9	Excellent
1	HM 2771RZ	88.8	Excellent
6	SX Prompt	89.6	Excellent
1	HM 2779RZ	89.9	Excellent
4	Crystal 555	90.0	Excellent
3	HM 2761RZ	90.3	Excellent
1	HM 9013RR	91.1	Excellent
1	HM 2767	97.3	Excellent
1	HM 2784RZ	98.5	Excellent
1	HM 9028RR	98.5	Excellent
1	Beta 5930R(1531R)	100.0	Good
7	HM E-17	100.0	Good
1	SX 1233	101.2	Good
1	HM 2782RZ	105.9	Good
1	HM 7235RZ	108.6	Good
2	HM 2763RZ	111.2	Good
1	HM 73RZ	112.1	Good
2	HM 7172RZ	118.2	Fair
1	HM 2780RZ	118.3	Fair
	Moderately Susceptible Check	121.6	Fair
1	HM 9027RR	130.8	Poor
1	HM 9029RR	135.5	Poor
1	Beta BK1641R	181.1	Poor
	Susceptible Check	217.1	Poor

* E17 Check 1998=2.3; 1999=2.8; 2000=1.5; 2001=1.67,
2002=no data; 2003=2.67; 2004=5.83; 2006=3.38.

** Ratings: STD HM E17 check; Excellent <100; Good 101 to 115;
Fair 116 to 130; Poor >130.

RHIZOMANIA NURSERY RESULTS
 Conducted by USDA in Salinas, CA

2006

AVERAGE OF 3 YEARS

Variety	RWSA	% SUGAR	TON/A	Disease Index*	% Rating 0-4**
HM 7172RZ	12871	18.96	34.06	3.4	82.1
Beta 5833R(1383R)	12343	18.59	33.22	3.4	84.1
HM 74RZ(2774Rz)	12330	18.77	32.92	3.3	82.0
HM 73RZ(2773Rz)	12256	19.04	32.14	3.0	89.2
HM 2771RZ	11783	19.06	30.82	3.0	93.0
HM 2761RZ	11764	18.50	31.80	3.4	78.2
HM 2763RZ	11083	18.97	29.21	3.3	82.0
Crystal R442(R451)	10908	18.96	28.68	3.9	66.7
Beta 5411R(1411R)	10676	19.00	28.09	3.9	65.8
HM E-17	8460	17.44	23.96	5.1	33.2
GM	11447	18.73	30.49	3.6	75.6

* A lower number indicates more resistance. Visual observation of the roots. 0-4 considered resistant, and 5-9 considered susceptible.

** Percent of roots rating 0-4.

RHIZOMANIA NURSERY RESULTS

Conducted by USDA in Salinas, CA

2006

AVERAGE OF 2 YEARS

Variety	RWSA	% SUGAR	TON/A	Soluble Solids	Disease Index*	% Rating 0-4**
HM 7172RZ	11810	18.93	31.40	23.48	27.4	25.5
Crystal Z588	11684	18.95	30.83	23.61	27.2	25.4
Beta 5833R(1383R)	11330	18.53	30.63	22.85	26.7	24.8
HM 74RZ(2774Rz)	11217	18.82	29.84	23.37	26.6	25.0
HM 2780RZ	11189.5	18.61	30.05	23.11	26.6	24.8
HM 2779RZ	11082	18.32	30.22	23.02	26.6	24.8
HM 73RZ(2773Rz)	10980	18.94	28.96	23.44	26.2	24.8
Crystal R509(Z589)	10948	18.55	29.50	23.09	26.3	24.7
HM 2771RZ	10567	18.80	28.08	23.68	25.9	24.8
HM 2761RZ	10301	18.46	27.88	23.39	25.6	24.5
HM 2763RZ	10079	18.92	26.66	23.54	25.1	24.3
Crystal R442(R451)	9809	18.76	26.09	23.34	24.7	24.0
Beta 5411R(1411R)	9394	18.79	25.06	23.42	24.2	23.8
Beta 5930R(1531R)	9314	19.00	24.48	23.69	24.1	23.9
HM E-17	6633	17.12	19.18	21.50	20.3	20.9
GM	10422.2	18.63	27.92	23.23	25.6	24.4

* A lower number indicates more resistance. Visual observation of the roots. 0-4 considered resistant, and 5-9 considered susceptible.

** Percent of roots rating 0-4.

RHIZOMANIA NURSERY RESULTS

Conducted by USDA in Salinas, CA

2006

SORTED by RWSA

	VARIETY	RWSA	TON/A	% SUGAR	% Soluble Solids	Disease Index*	% Rating 0-4**&
1	Beta B6904RR	14738	42.11	17.50	21.61	2.6	99.6
25	HM 7172RZ	14462	38.88	18.61	23.33	2.8	100.0
33	Beta B6905RR	13979	39.62	17.69	21.72	2.7	98.9
16	Beta BK1641R	13764	35.72	19.29	23.88	3.0	99.0
15	HM 9028RR	13638	36.91	18.49	23.18	2.6	99.6
	Resistant Check	13589	37.78	18.01	22.16	2.5	99.6
5	Crystal Z588	13466	35.37	19.05	23.74	2.7	99.6
10	Beta 5534N	13423	37.23	18.05	22.21	2.7	99.6
14	Crystal Z627	13416	34.93	19.22	23.52	2.8	98.9
28	HM 2779RZ	13392	36.30	18.44	23.18	2.7	98.0
18	Crystal C9641RR	13303	36.62	18.17	22.16	2.8	99.6
	Resistant Check	13280	36.32	18.27	22.76	2.8	99.6
	Resistant Check	13245	36.38	18.21	22.74	3.0	99.6
3	HM 2780RZ	13210	35.39	18.65	23.23	2.9	97.1
30	HM 2781RZ	13032	34.89	18.71	23.63	2.9	98.1
12	HM 73RZ	13002	34.01	19.12	23.56	2.8	97.3
4	Beta 5833R(1383R)	12951	35.09	18.48	22.99	3.1	95.5
8	Crystal R509(Z589)	12768	34.21	18.66	23.12	3.1	97.3
20	Beta Bk1642R	12755	32.81	19.42	23.90	3.4	84.6
26	HM 74RZ	12705	33.63	18.91	23.70	3.0	96.5
23	HM 9027RR	12581	33.89	18.57	23.23	3.1	93.9
31	HM 2782RZ	12580	33.76	18.64	22.99	2.8	97.8
24	HM 2771RZ	12562	33.14	18.96	23.91	2.8	99.2
27	SX 1233	12525	33.28	18.84	23.70	2.7	98.2
32	HM 2784RZ	12519	33.79	18.53	22.63	2.8	98.8
6	HM 7235RZ	12233	31.87	19.18	23.50	2.9	96.8
22	HM 2763RZ	12159	32.12	18.94	23.49	2.9	97.8
19	HM 9029RR	12088	32.44	18.65	23.39	3.1	92.0
21	Crystal C9642RR	11904	30.48	19.54	24.06	3.0	97.4
29	HM 9013RR	11857	32.38	18.33	22.87	3.3	89.5
2	Crystal R442	11724	30.79	19.03	23.70	3.5	79.0
13	Beta 5930R(1531R)	11553	30.35	19.04	23.77	3.3	88.9
9	HM 2761RZ	11418	30.74	18.54	23.56	3.1	91.4
7	Beta 5411R(1411R)	11199	30.05	18.64	23.31	3.5	80.3
11	Crystal R626	11160	28.67	19.49	24.02	3.5	80.4
17	HM E-17	9116	26.12	17.46	21.78	4.5	42.7
	Susceptible Check	8685	27.20	15.97	19.81	3.9	59.2
	Susceptible Check	7645	24.35	15.74	19.54	4.6	33.0
GM		12,213	33.60	18.15	22.61	3.1	88.5
LSD (5%)		1100.5	3.16	0.50	0.57	0.3	11.0
CV%		9.2	9.57	2.83	2.56	10.2	11.3

1-row plots 22 ft. long 8 Reps

Planted: May 4 Harvested: October 23 & November 1, 4 Reps each



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